ONKYO SERVICE MANUAL

DVD CHANGER

MODEL DV-CP702
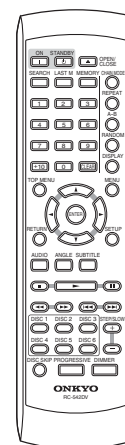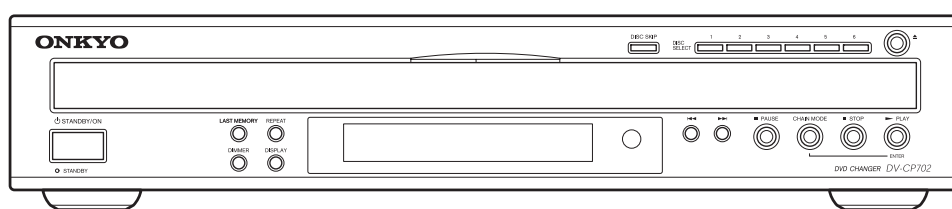
RC-542DV

Black and Silver models

B CDD1N	120V AC, 60 Hz
S CDD1N	
B CPA4P	230-240V AC, 50/60 Hz
S CPA4P	

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.
MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

ONKYO®

IMAGINATIVE SIGHT & SOUND

SPECIFICATIONS

Video system		Standard NTSC (U.S. model), PAL/AUTO (Australian model)
Region code		1 (U.S. model), 4 (Australian model)
Laser		Semiconductor laser, wavelength 650 nm (DVD), 780 nm (CD)
Frequency response	**DVD linear audio**	4 Hz-22 kHz @ 48 kHz sampling rate 4 Hz-44 kHz @ 96 kHz sampling rate
	CD audio	4 Hz-20 kHz
Signal-to-noise ratio (digital audio)		100 dB
Audio dynamic range (digital audio)		95 dB
Harmonic distortion (digital audio)		0.006%
Wow and Flutter		Below measurable level
Operating conditions	**Temperature**	5°C to 35° C (41° F to 95° F)
	Installation	Install horizontally
Video outputs	**COMPONENT VIDEO**	Y: 1.0 V (p-p), 75 ohm, negative sync, RCA/phono x3 P_B/P_R: 0.7 V (p-p), 75 ohm
	S VIDEO (S-Video)	Y: 1.0 V (p-p), 75 ohm, negative sync, 4-pin mini DIN x1 C: 0.286 V (p-p), 75 ohm
	VIDEO (composite video)	1.0 V (p-p), 75 ohm, negative sync, RCA/phono x1
Audio outputs	**OPTICAL**	-22.5 dBm, optical connector x1
	COAXIAL	0.5 V (p-p), 75 ohm , RCA/phono x1
	ANALOG	2.0 V rms, 440 ohm, RCA/phono x2
General	**Power supply**	120 V AC, 60 Hz (U. S. model) 230-240 V AC, 50/60 Hz (Australian model)
	Power consumption	13 W
	Power consumption in Standby mode	0.95 W (U.S. model) 0.96 W (Australian model)
	Weight	5.3 kg (11.7 lbs.)
	Dimensions (W x H x D)	435 X 91 X 432 mm (17-1/8 X 3-9/16 X 17)

Specifications and features subject to change without notice.

SERVICE PROCEDURES-1

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

SERVICE WARNING : DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICKUP BLOCK.

Laser Diode Properties

Wavelength: 650/780nm (DVD/CD)

WARNING

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING	AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN	RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

LASER WARNING

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

CAUTION:
VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:
THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
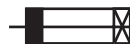
The label on the right is applied on the rear panel except for USA and Canadian models.
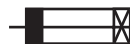
"CLASS 1 LASER PRODUCT "

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

LASER BEAM CAUTION LABEL

SERVICE PROCEDURE

1. Replacing the fuses

This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse , For fuse rating, refer to the marking adjest to the symbol.

Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposre.

REF. NO.	PART NO.	DESCRIPTION	
F1	5120-0130-0 or	1.6A-UL/T-237 **<CDD1N>**	
	5120-1000-0	1.6A-T/UL-ST2 **<CDD1N>**	North American area
F1	5120-0094-0 or	2.5A-SE-EAK **<CPA4P>**	
	5120-1010-0	2.5A-SE-TL250V **<CPA4P>**	Australian area

SERVICE PROCEDURES-2

2. Safety-check out

(Only U.S.A. model)
After correcting the original service problem perform the
following safety check before releasing the set to the customer
Connect the insulating-resistance tester between the plug of
power supply cord and terminal GND on the back panel.
Specifications: More than 10M ohm at 500V

INITIALIZING

Factory-shipped condition
Push button "ON" (Mechanical SW)
Press the [**STOP**] and [**STANDBY**] same time with NO DISC condition.
Push button "STANDBY".
After display "COMPLETE".

REMOVE THE SOLDER OF LASER DIODE SHORT

When replace the mechanism or DVD main PC board.
Shotting the solder of Shot-circuit land. (2 positions)

PANEL VIEW-1

FRONT PANEL
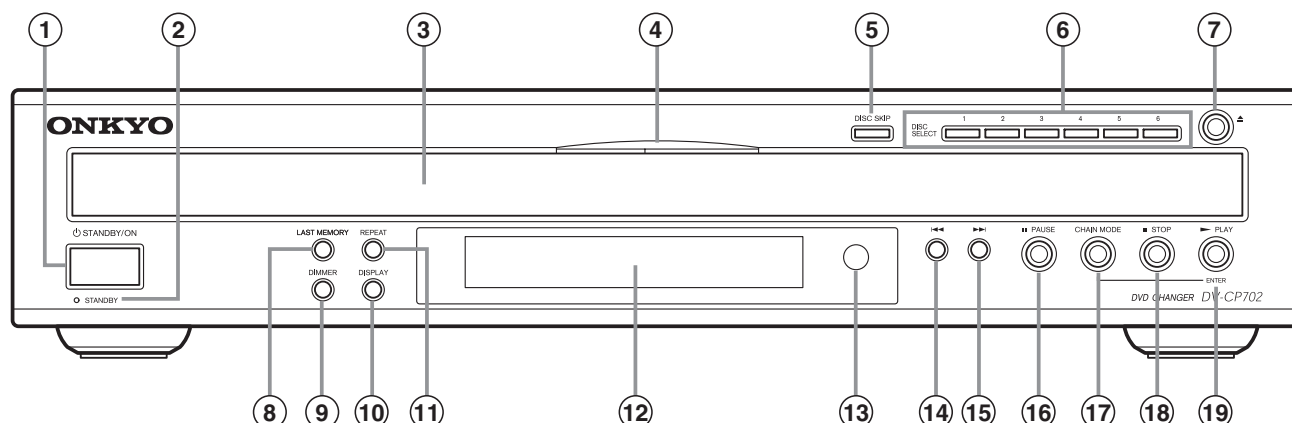
① STANDBY/ON button

This button is used to set the DV-CP702 to On or Standby.
Don't turn on the power until you've completed, and double checked all connections.

② STANDBY indicator

This indicator lights up when the DV-CP702 is in Standby mode.

③ Disc tray

The disc tray has six bays for loading up to six discs.

④ Disc tray light

This light illuminates the disc tray. It comes on when the DV-CP702 is turned on, and is brighter while the disc tray is open.

⑤ DISC SKIP button

This button is used to select the disc bays (i.e., rotate the disc tray) when loading or removing discs, and to select discs for playback.

⑥ DISC SELECT 1-6 buttons

These buttons are used to select discs. Playback starts automatically when a disc is selected with these buttons.

⑦ Open/Close [⏏] button

This button is used to open and close the disc tray.

⑧ LAST MEMORY button

This button is used with the Last Memory function.

⑨ DIMMER button

This button is used to adjust the display brightness.

⑩ DISPLAY button

This button is used to display information about the current disc, title, chapter, or track, including the elapsed time, remaining time, total time, and so on.

⑪ REPEAT button

This button is used with the Repeat function.

⑫ Display

⑬ Remote control sensor

This sensor receives control signals from the remote controller.

⑭ Previous [◄◄] button

This button is used to select the previous chapter or track. During playback it selects the beginning of the current chapter or track.

⑮ Next [►►] button

This button is used to select the next chapter or track.

⑯ PAUSE [❙❙] button

This button is used to pause playback.

⑰ CHAIN MODE button

This button is used with the Chain mode function.

⑱ STOP [■] button

This button is used to stop playback.

⑲ PLAY/ENTER [►] button

This button is used to start playback and to cancel fast forward and fast reverse. It's also used to start Chain mode playback.

PANEL VIEW-2

DISPLAY
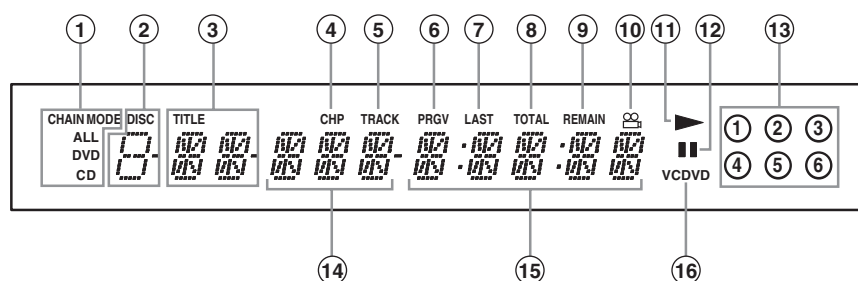
① **CHAIN MODE, ALL, DVD & CD indicators**

The CHAIN MODE indicator appears when the Chain mode function is on. The ALL, DVD, and CD indicators show the type or Chain mode selected.

② **DISC indicator**

The number of the currently selected disc appears here.

③ **TITLE indicator**

While stopped, the total number of titles on the current DVD-Video disc is displayed here. During playback, the number of the current title is displayed.

④ **CHP indicator**

This indicator appears while the number of the current chapter is being displayed.

⑤ **TRACK indicator**

This indicator appears while track numbers are being displayed. While stopped, the total number of tracks on the current Video CD, audio CD, or MP3/WMA disc are displayed. During playback, the number of the current track is displayed.

⑥ **PRGV indicator**

This indicator appears when the Progressive Scanning function is on.

⑦ **LAST indicator**

This indicator appears when the Last Memory function has been set.

⑧ **TOTAL indicator**

This indicator appears while the total time is being displayed.

⑨ **REMAIN indicator**

This indicator appears while the remaining time is being displayed.

⑩ **Camera angle indicator**

This indicator appears if the DVD-Video disc being played features multiple camera angles.

⑪ **Play ► indicator**

This indicator is shown during playback.

⑫ **Pause ‖ indicator**

This indicator appears when playback is paused.

⑬ **Disc indicators 1-6**

These indicators show how many discs are loaded. The number of the current disc has a circle around it. When the disc tray is closed, all of the disc indicators appear until the DV-CP702 has checked each bay for the presence of a disc. If a bay is found to have no disc, the corresponding indicator disappears.

⑭ **Chapter & track number**

Chapter and track numbers appears here.

⑮ **Time display**

Time information, such as total time, remaining time, and so on, is displayed here in hours, minutes, and seconds. Other messages are also displayed.

⑯ **VCDVD indicator**

This indicator shows the type of disc currently selected:
DVD: DVD-Video, DVD-R, or DVD-RW
VCD: Video CD
CD: Audio CD, MP3/WMA/JPEG CD-R, or CD-RW

PANEL VIEW-3

REAR PANEL
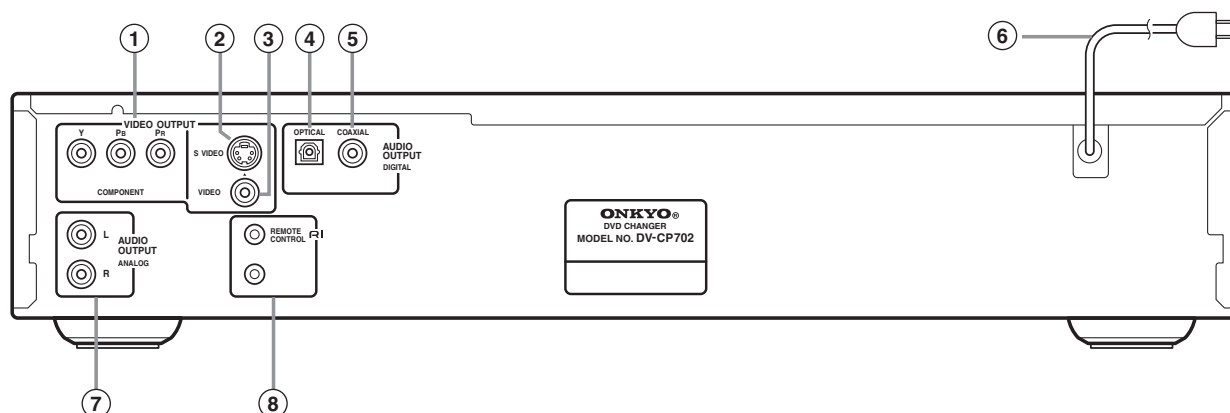
① **COMPONENT VIDEO OUTPUT**

These RCA/phono connectors can be used to connect a TV or projector with component video inputs.

② **S VIDEO OUTPUT**

This connector can be used to connect a TV or projector with an S-Video input.

③ **VIDEO OUTPUT**

This RCA/phono connector can be used to connect a TV or projector with a composite video input.

④ **OPTICAL AUDIO OUTPUT**

This optical digital audio output can be connected to an optical digital audio input on a hi-Þ amp, AV receiver, or surround sound decoder (Dolby Digital, DTS).

⑤ **COAXIAL AUDIO OUTPUT**

This coaxial digital audio output can be connected to an coaxial digital audio input on a hi-Þ amp, AV receiver, or surround sound decoder (Dolby Digital, DTS).

⑥ **Power cord**

This power cord should be connected to a suitable wall outlet.

⑦ **ANALOG AUDIO OUTPUT**

These RCA/phono connectors can be connected to analog audio inputs on a hi-Þ amp, AV receiver, or surround sound decoder (Dolby Pro Logic).

⑧ **RI REMOTE CONTROL**

These RI (Remote Interactive) connectors can be connected to the RI connectors on your other Onkyo AV components for interactive control.

PANEL VIEW-4

REMOTE CONTROLLER-1

ONKYO
RC-542DV
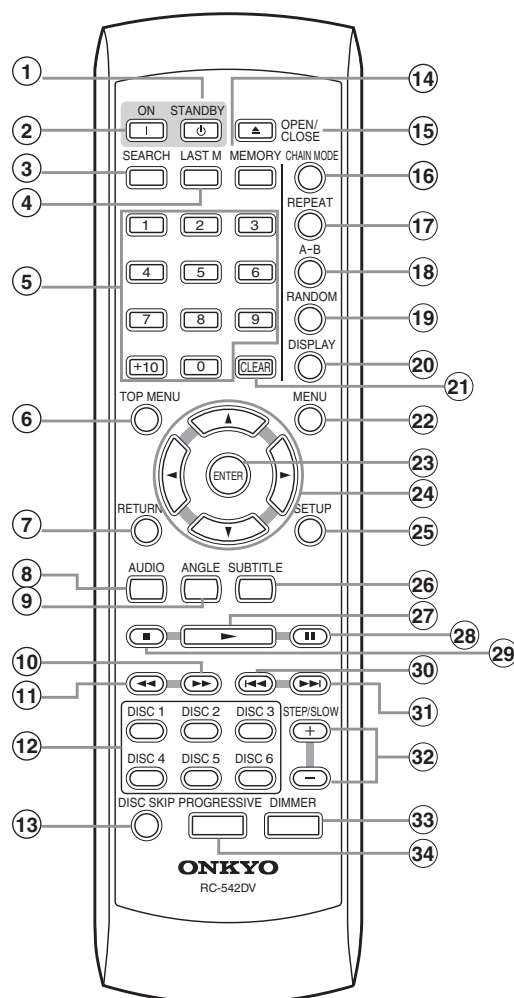
① **STANDBY button**

This button is used to set the DV-CP702 to Standby.

② **ON button**

This button is used to turn on the DV-CP702.
Don't turn on the DV-CP702 until you've completed, and double checked all connections.

③ **SEARCH button**

This button is used to search for titles, chapters, tracks, and speciÞc points in time.

④ **LAST M button**

This button is used with the Last Memory function.

⑤ **Number buttons**

These buttons are used to enter title, chapter, and track numbers and to enter times for locating speciÞc points in time.

To enter a single-digit number, simply press the corresponding button. To enter a double-digit number, enter the numbers in order from left-to-right.

The [+10] button is used to enter multiples of ten (i.e., 10, 20, 30, and so on). For example, to enter the number 25, press the [+10] button twice followed by the [5] button.

⑥ **TOP MENU button**

This button is used to select the top menu.

⑦ **RETURN button**

This button is used to exit the onscreen setup menu and to restart menu playback.

⑧ **AUDIO button**

This button is used to select foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS).

⑨ **ANGLE button**

This button is used to select different camera angles.

⑩ **Fast Forward [▶▶] button**

This button is used to start fast forward.

⑪ **Fast Reverse [◀◀] button**

This button is used to start fast reverse.

⑫ **DISC 1-6 buttons**

These buttons are used to select discs. Playback starts automatically when a disc is selected with these buttons.

⑬ **DISC SKIP button**

This button is used to select the disc bays (i.e., rotate the disc tray) when loading or removing discs, and to select discs for playback.

⑭ **MEMORY button**

This button is used with the Memory Playback function.

⑮ **OPEN/CLOSE [▲] button**

This button is used to open and close the disc tray.

⑯ **CHAIN MODE button**

This button is used with the Chain mode function.

PANEL VIEW-5

REMOTE CONTROLLER-2

⑰ **REPEAT button**

This button is used to set the Repeat Playback functions.

⑱ **A-B button**

This button is used to set the A-B Repeat Playback function.

⑲ **RANDOM button**

This button is used with the Random Playback function.

⑳ **DISPLAY button**

This button is used to display information about the current disc, title, chapter, or track, including the elapsed time, remaining time, total time, and so on.

㉑ **CLEAR button**

This button is used to cancel various functions.

㉒ **MENU button**

This button is used to select the menu.

㉓ **ENTER button**

This button is used to start playback of the selected title chapter, or track and to confirm settings.

㉔ **[▲], [▼], [◄], [►] buttons**

These buttons are used to navigate DVD-Video menus and the onscreen setup menus.

㉕ **SETUP button**

This button is used to open and close the onscreen setup menus.

㉖ **SUBTITLE button**

This button is used to select subtitles.

㉗ **Play [►] button**

This button is used to start playback.

㉘ **Pause [❙❙] button**

This button is used to pause playback.

㉙ **Stop [■] button**

This button is used to stop playback.

㉚ **Previous [❙◄◄] button**

This button is used to select the previous chapter or track. During playback it selects the beginning of the current chapter or track.

㉛ **Next [►►❙] button**

This button is used to select the next chapter or track.

㉜ **STEP/SLOW [+] & [-] buttons**

These buttons are used with the Frame-by-Frame Playback and Slow Motion Playback functions.

㉝ **DIMMER button**

This button is used to adjust the display brightness.

㉞ **PROGRESSIVE button**

This button is used to turn on and off the Progressive Scanning function. Progressive scanning can't be turned on or off during playback.

EXPLODED VIEW

Up side

70mm

E   F   G   H

M20

g

M40

M39

M38

M38

M38

A50

A25

A19

A18

A19

A19

(U7)

A51

A19

A16

A19

(U8)

M41

A25

(U10)

A19

(U3)

M36

P707

A19

A19

g

A3

M42   M35

A19

A19

A4   A5

M31

A13

A2   only

M34

(U9)

A21

A22

A6

M37   M37

M37

A22

A2

A14

A12

A30

A1   A7   A26

<S> only

A215

A215

A215

A215

A215

A214

A216

A215
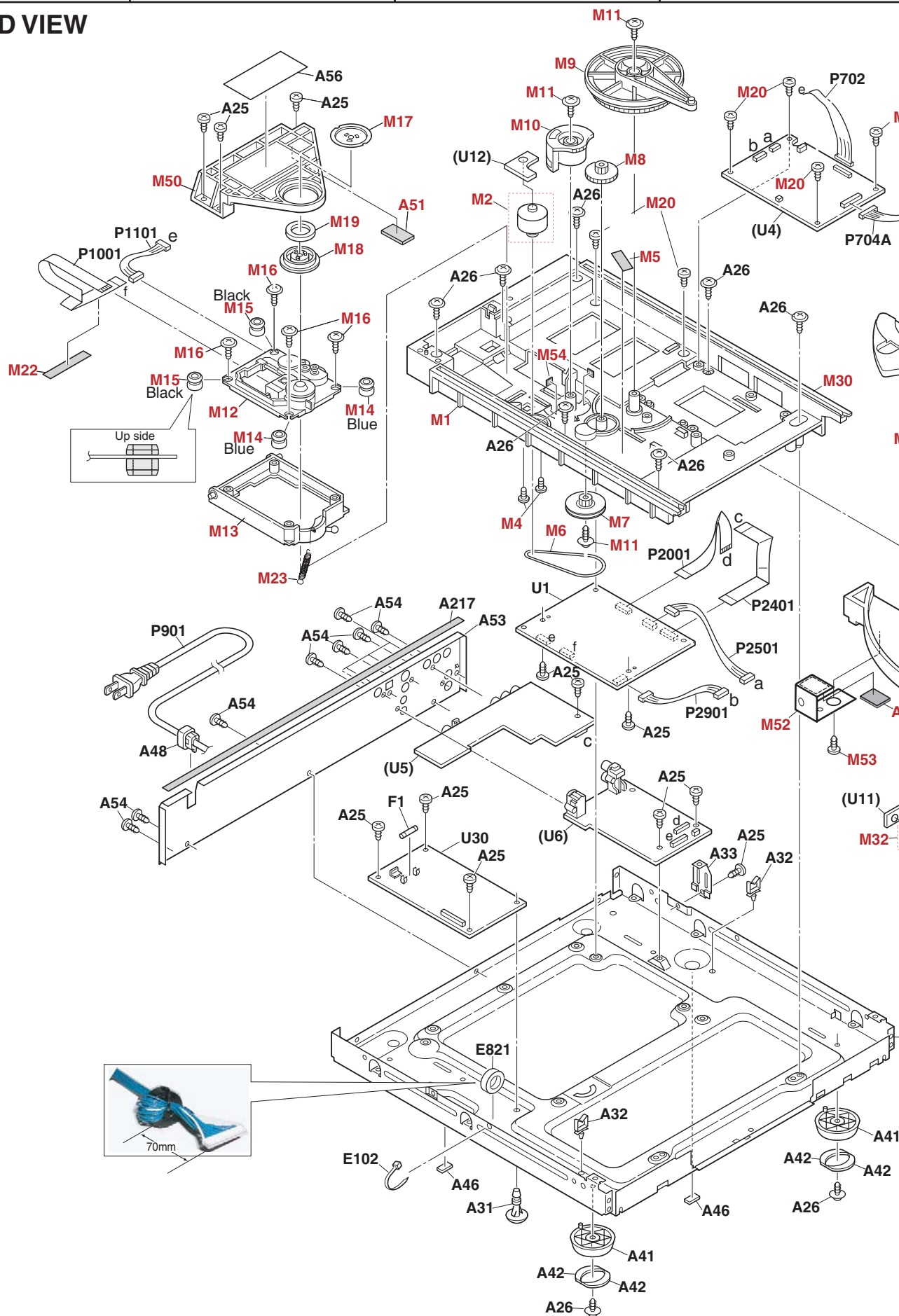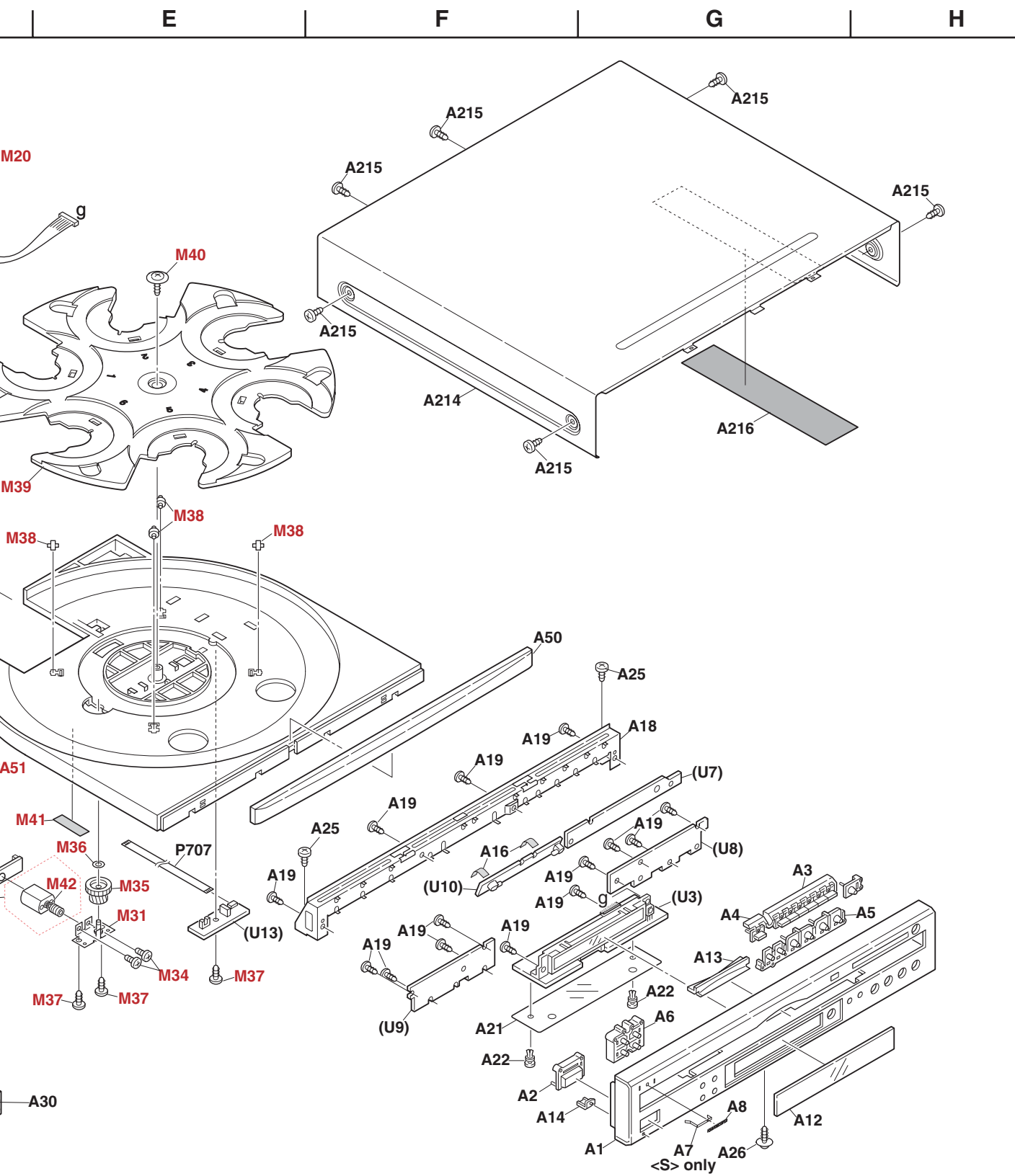
EXPLODED VIEW

BLOCK DIAGRAM

DVD MECHA

P1001

LASER etc

P1101

SPD+,SPD-,SLD+,SLD,LMT-SW

U1 : NADG-7807

DVD Main circuit PC board

D

CR
SY
SC

SW3.3V SW5V SW8V

P2901

DSPSI,DSPSO EV5V
DSPCK,DSTBX

P2501

U30 : POWER SUPPLY UNIT

NGPS-0036 (US)

NGPS-0037(AUS)

P901

EV5V
SW5V
SW3.3V
SW8V
A+12V
A-12V
-30V
F1
F2

P710A

EV5V,SW5V,SW3.

SUBRST,SUBCL,SUBREQ,SUBSI,SUB

EV5V,-30V,F1,F2

P704A

U3 : NADIS-7808

FL TUBE HNV-12SM34

Q801

MPD780232GC-070-8BT

X801
5MHZ

Q808

REMOTE CONTROL SENSOR
RPM7138

LED

KEY INPUT

**U10 :
LED Disp.**

**U8 : Key
operation**

Q704,Q706

ROULETTE MOTOR
DRIVE

U4 : NADG-7809
Mecha. control PC board

**U11:Roulette
motor**

P2001A

DACCLK,LRCLK,BCLK,DATAD,DOUT0-1
MD,MC,CSDACD,DACRST

U6 : NAAF-7811 Audio out terminal PC board

Q109:DTA114YKA
Q110:DTC114YKA

Q401	Q403(1/2)	Q403(2/2)	Q109,Q110
PCM1742KE	FILTER CCT	Q405	MUTING
AUDIO DAC	Q404(1/2)	VLSC	Q407,Q408
		Q404(2/2)	
		Q406	

Lch

Rch

AUDIO OUT

P702B

RI,RESET,AMUTE

Q403-Q406:NJM4580M-D

Q407,Q408:HN1C03F

EV5V,SW5V,SW3.3V,A+12V,A-12V

DIG OUT   P403A

U5 : NAVD-7810 Video output terminal PC board

Q201
LA73054
VIDEO AMP

Y
PB   COMPONENT
PR
S
CV

P2401A

CR/R,CB/B,CY/G
SY,SC,LETTER
SQEZ,P/IX,AR2/AR1X

P701B

Q411
TC74VHCU04T
DIGTAL OUT DRIVE

COAXAL_OUT
OPT_OUT

VIDEO OFF,RXD1,TXD1

EV5V,SW5V

SW3.3V,A+12V,A-12V

I,SUBSO

Q701

MPD780053GC-141-8BT

X701
4.5MHZ

Q702

S-80130
RESET IC

Q706,Q710,Q709
DISC SENSER

Q717,Q711,Q708
POSITION
SENSER

Q705,Q707

LOADING MOTOR
DRIVE

**U12:Loading
motor**

Q716

DISC SENSOER

Q

ROULETTE SENSOR

U13 : Disc sensor

BLOCK DIAGRAM

DVD MECHA

P1001
LASER etc

P1101
SPD+,SPD-,SLD+,SLD,LMT-SW

U1 : NADG-7807
DVD Main circuit PC board

P2001A
DACCLK,LRCLK,BCLK,DATAD,DOUT0-1
MD,MC,CSDACD,DACRST

P702B
RI,RESET,AMUTE

EV5V,SW5V,SW3.3V,A+12V,A-12V

P2401A
CR/R,CB/B,CY/G
SY,SC,LETTER
SQEZ,P/IX,AR2/AR1X

P701B
VIDEO OFF,RXD1,TXD1

U6 : NAAF-7811 Audio out terminal PC board

Q109:DTA114YKA
Q110:DTC114YKA

Q401	Q403(1/2)	Q403(2/2)	Q109,Q110
PCM1742KE	FILTER CCT	Q405	MUTING
AUDIO DAC	Q404(1/2)	VLSC	Q407,Q408
		Q404(2/2)	
		Q406	

Q403-Q406:NJM4580M-D   Q407,Q408:HN1C03F

→ Lch

→ Rch

AUDIO OUT

DIG OUT   P403A

U5 : NAVD-7810 Video output terminal PC board

Q201
LA73054
VIDEO AMP

Q411
TC74VHCU04T
DIGITAL OUT DRIVE

→ Y
→ PB   COMPONENT
→ PR
→ S
→ CV
→ COAXAL_OUT
→ OPT_OUT

SW3.3V SW5V SW8V
P2901

DSPSI,DSPSO,EV5V
DSPCK,DSTBX P2501

U30 : POWER SUPPLY UNIT

NGPS-0036 (US)
NGPS-0037(AUS)

P901

EV5V
SW5V
SW3.3V
SW8V
A+12V
A-12V
-30V
F1
F2

P710A

EV5V,SW5V

EV5V,SW5V,SW3.3V,A+12V,A-12V

EV5V,-30V,F1,F2

SUBRST,SUBCL,SUBREQ,SUBSI,SUBSO

Q701
MPD780053GC-141-8BT

X701
4.5MHZ

Q702
S-80130
RESET IC

U3 : NADIS-7808

FL TUBE HNV-12SM34

Q801
MPD780232GC-070-8BT

X801
5MHZ

Q808

REMOTE CONTROL SENSOR
RPM7138

LED

KEY INPUT

P704A

U4 : NADG-7809
Mecha. control PC board

Q704,Q706
ROULETTE MOTOR
DRIVE

Q705,Q707
LOADING MOTOR
DRIVE

Q706,Q710,Q709
DISC SENSER

Q717,Q711,Q708
POSITION
SENSER

U10 :
LED Disp.

U8 : Key
operation

U11:Roulette
motor

U12:Loading
motor

Q716

DISC SENSOER

Q

ROULETTE SENSOR

U13 : Disc sensor

SCHEMATIC DIAGRAM-1

E   F   G   H

U1 : DVD MAIN PC BOARD-1 NADG-7807

Q1201
CXD1885Q

33.8688MHZ

SCHEMATIC DIAGRAM-2

U1 : DVD MAIN PC BOARD NADG-7807-2

SCHEMATIC DIAGRAM-3

U3 : FRONT DISPLAY PC BOARD NADIS-7808

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT.POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.

POWER SUPLLY UNIT

CDD1N:NGPS0036
CPA4P:NGPS0037

E F G H

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY.
  REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ⟩ IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS (⊥) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030 → 3pF 330 → 33pF 331→330pF 333→ 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
  THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) [○ ○ ○] PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

U7 : DISC SELECT SWITCH PC BOARD NASW-7812

NASW-7812

U10 : LED DISPLAY PC BOARD NADIS-7815

NADIS-7815

U8 : KEY OPERATION SWITCH PC BOARD NASW-7813

NASW-7813

U9 : STANDBY SWITCH PC BOARD NASW-7814

NASW-7814

SCHEMATIC DIAGRAM-4

U13 : DISC SENSOR PC BOARD

NAETC-7818

NADG-7809

NCETC-7896

U11 : ROULETTE
MOTOR PC BOARD

NAETC-7816

NAETC-7817

U12 : LOADING MOTOR
PC BOARD

DISC SENSER

R761 180
Q716 GP2S28
R762 150K
C761 223
C762 104
C763 NC

STOP_POSITION SENSER

R763 390
Q717 RPI-576
R764 470K
C764 223

P707B
FFC1MM
P707A
FFC1MM

P709B
P709A

C765 104
Z701
ROULETTE MOTOR

LOADING MOTOR
Z702
C766 104

P708B
P708A

Q710 DTC114YKA
Q709 DTC114YKA
R702 3.3K
R704 10K
R701 8.2K
C701 NC
R705 270K
R703 1M

Q711 DTC114YKA
Q712 DTC114YKA
R706 5.6K
R708 10K
R705 8.2K
C702 NC
R766 4.7K
R707 1M

Q704 TA7291S   ROULETTE MOTOR DRIVE
1 IN2 2 VCC 3 OUT2 4 NC 5 GND 6 VS 7 OUT1 8 VREF 9 IN1

R709 47 (1/4W)
R710 2.2K
R711 100K
R712 100K
D702 UDZ2.2B
Q706 DTC114YKA ROTHI
C703 100/16
D701 UDZ2.7B

Q705 TA7291S   LOADING MOTOR DRIVE
1 IN2 2 VCC 3 OUT2 4 NC 5 GND 6 VS 7 OUT1 8 VREF 9 IN1

R713 100K
R714 100K
R715 4.7 (1/4W)
R716 5.6K
Q707 2SA1162
R717 10K
R718 4.7K
R720 2.2K
D704 NC
Q708 NC
C704 100/16
D703 UDZS4.7B
R719 5.6K

R721 10K
R722 10K
R723 10K

S701 SPVF1
S702 SPVF1
S703 SPVF1
C705 223 C706 223 C707 223

R768 2.2K

C711 10/16 C712 104
C713 10/16 C714 104
C715 10/16 C716 104

From Power supply unit

P-ON 1	PWRCNT
EV5V	EV5V
EV+5V/GND	
SW+5V	
SW+5V/GND 5	SW+3.3V
SW+3.3V	
SW+8V	
SW+8V	
SW+8V/GND	
A+12V 10	
AGND	
A-12V	
VDISP/-30V	
F1	
F2 15	F2

C717 10/16 C718 104
C719 10/16 C720 104
C721 10/16 C722 104

SW+8V
SW+8V/GND
SW+5V
SW+5V/GND
SW+3.3V
SW+5V/GND

A+12V
AGND
A-12V

P706
P706B
P706A

GND SUBSI SUBSO SUBDLK RESET EV5V IC

P710A

E F G H

WRITE IN FLASH PLUG

U4: MECHANISM CONTROL PC BOARD NADG-7809

200mS Delay

Q702
1 DS VDD 5
2 VSS
3 NC VOUT 4
S-80145

UDZS5.1B
D732
R750
220K
R749
470

DTA114YKA
Q703
D733
1SS352

D734
1SS352
R751
2.7K
C733
102

R748
47K

AMUTE/UCOM
VDOFF

R747
100
R746
100

R767
10K

D731
1SS352
IRIN

R752
1K
C731
1/50
C732
104

RESET 60
P127/GND 59
P126/GND 58
RIIN 56
RIOUT 57
P123/GND 55
P122/GND 54
P121/GND 53
P120/GND 52
P37/GND 51
P36/GND 50
P35/GND 49
P34/GND 48
PWRCTR 47
AMUT 46
P31/NC 45
VDOFF 44
P67/GND 43
P66/GND 42
P41 41
P55/GND

61 IRIN
62 P/OFF
63 DSTBX
64 SUB_RDY
65 P04/GND
66 P05/GND
67 VSS2
68 VDD1
69 X2
70 X1
71 IC
72 XT2/OPEN
73 XT1/P07/VDD0
74 VDD0
75 AVREF2
76 K1/DESTI
77 MODE1
78 MODE2
79 P13/GND
80 P14/GND

C729 104
C728
100/6.3

X701
4.5MHZ

Q701
MPD78005X

P64/GND 40
P63/GND 39
P62/GND 38
P61/GND 37
P60/GND 36
P57/NC 35
P56/NC 34
VSS1 33
LOADHI 32
ROTHI 31
RML 30
RMR 29
LML 28
LMR 27
LMVOLH/L 26
P46/NC 25
DISC/SEN 24
R/SEN 23
LMCURRENT 22
21
P42/SW3

ROTHI

R759
100

R753
NC
R754
R755 2.7K
R756
R757 R758
* *

R759
NC
R757
* R758
*

Model&Area R755 R756 R757 R758
CP702CDD1N NC 2.7K NC 2.7K
CP702CPA4P NC 2.7K 0 NC

AN15NC 1
AN16NC 2
SUBRST 3
AVSS0 4
NC 5
FLOWOFF 6
AVREF1 7
SUBSDI/FLASH 8
SUBSDOF/FLASH 9
SUBCLK/FLASH 10
DSPSO 11
DSPSI 12
DSPCKX 13
P23/STB/TXD1 14
P24/BUSY/RXD1 15
SUBSDO 16
SUBCLK 17
SUBSDI 18
P40/SW1 19
P41/SW2 20

R734
100

R731 2.7K
R733 2.7K

SUBSDI
SUBSDO
SUBCLK

R744
100

R743
100

P711A

RI

IR_IN

NC

P701A

VIDEO/OFF
SW+5V
DGND

VIDEO OFF
SW+5V
DGND
EV5V
RXD1
TXD1

NC

R771
10K

R/SEN
DISC/SEN
LMVOLH/L
ROTHI

R/SEN
DISC/SEN
LMVOLH/L
ROTHI

DV-CP702_ONLY

RI

6

1

RI
RST
AMUTE/UCOM
EV5V
EV5VGND
SW+5V
DGND
SW+3.3V
A+12V
AGND
A-12V

To Video output PC board
U5

To Audio output PC board
U6

LMR
LML
RML
RMR

R738 2.7K
R740 2.7K

R732
100

R742
100

R739
100

R741
100

R745
100

LMR
LML
RML
RMR

RI
RST
AMUTE/UCOM
EV5V
EV5V
SW+5V
DGND
SW+3.3V
A+12V
AGND
A-12V

P702A

11

7

EV5V
GND(MICON)
DSTBX
DSPSCK
DSPSO-DSPSI
DSPSI-DSPSO

R737
100

R735
100
R736
100

1

to Main circuit PC board
NADG-7807 (U1)

P2501B

P704A

Q715
DTA114YKA

R725
22K
Q713
2SD655

R724
220K

R726
22K
Q714
2SD655

1

SUBSDI-SUBSDO
SUBSDO-SUBSDI
GND
SUBREQ
SUBCLK
GND
SUBRST
EV5V
VDISP
F2
F1

to Front disp. PC board
NADIS-7808 (U3)

VDISP
F1

EV5V
VDISP

11

C767
100/16

SW+8V

SW+5V

SW+3.3V

L701
47UH

L702
47UH

6

SW8V
SW8/GND
SW+5V
SW+5/GND
SW+3.3V
DGND1

1

to Main circuit PC board
NADG-7807 (U1)

+5V

+3.3V

C768
100/6.3

P2901B

A+12V
AGND
A-12V

SCHEMATIC DIAGRAM-5

U5 : VIDEO OUTPUT TERMINAL PC BOARD NAVD-7810

VIDEO/OFF

L221 220UH NCH-1482
C231 152
R282 2.2
R281 270
C201 104K
R207

SQEZ
LTTR
SQEZ
LTTR

CR/R
CB/B
YC/C
SY
SC

C202 NC
C203 10/16
GAIN9DB

C205 10/16
C207 10/16
C209 10/16

NC R202
R204 NC
NC R201
R205 1K

C210 100/6.3
GAIN9DB

C211 100/6.3

from Mecha. control board NADG-7808
VIDEO/OFF
SW+5V
GND
P701B
EV5V

from DVD MAIN board NADG-7807
CR/R
VGND
CB/B
VGND
YC/G
VGND
SY
VGND
SC
VGND
LETTER
SQUEEZE
I/PX
AR2/ARIX
RGBON
P2401A

R235 100
R236 100
R237 10K
R238 10K

AR2/ARIX
RGBON

H:INTR/L:PRGV
I/PX
Q202 DTC114YKA
R275 10K

Q203 DTA114YKA

Q205 NC
Q204 NC
R271 NC
R272 NC

LTTR
SQEZ

D-OUT

D-OUT0
D-OUT1
P403A P404A
P403 P404

U6 : AUDIO OUTPUT TERMINAL PC BOARD NAAF-7811

from DVD Main board NADG-7807
RI
RST
AMUTE/UCOM
EV5V
EV5GND
SW+5V
DGND
SW+3.3V
A+12V
A-GND
A-12V
P2001A
J1B

R477 2.2K
R460 100
SW+5V

A+12V
A-GND
A-12V

C401 100/16
C403 104
C402 100/16
C404

J1A
R471 100 (1/2W)
C434 10/16
Q413 CTRLVIN GND NJM2370U05 INBVOUT
C442 1/50
C435 10/16
C436 104

SW+5V
Q416 DTC114YKA
Q417 DTA114YKA
EV5V
SW+12V
R456 150 (1/2W)

27K R482
Q419 DTC114YKA
SW-12V

3.9K R480
12K R481
Q418 DTA114TKA
Q415 DTC114YKA

AMUTE/DAC

C411 22/50
R411 2.2K
R413 15K
R415 100K
C439 102
C413 221

from DVD Main board NADG-7807
DACRST
AMUTE/MAIN
MC
MD
CSDMIX
GND
DACCLK
GND
DAT-DMIX
LRCLK
BITCLK
GND
DIGOUT1
DIGOUT0

R402 100
R401 100
DACRST
AMUTE/MAIN
R403 100 MC
R404 100 MD
R405 100 CSDMIX
R406 100 DACCLK
R407 100 DAT-DMIX
R408 100 LRCLK
R409 100 BITCLK

L401 NC
R4004 NC
R4003 0
L402 NC

MD
MC
CSDMIX
DACCLK

L406 2.2UH
NCH1471 L403
NCH1471
C406 220/6.3
C408 104
2.2UH

1 BCKIN MCLK 16
2 DATA   ML 15
3 LRCKIN MC 14
4 GND   MD 13
5 VDD   ZEROL 12
6 VCC   ZEROR 11
7 VOUTL VCOM 10
8 VOUTR AGND 9
Q401 PCM1742KE
[D/A CONVERTOR]

AMUTE/DAC
C405 220/6.3
C407 104

R416 100K
C440 102
C414 221

C412 22/50
R412 2.2K
R414 15K

CUTOFFFREQ=50KHz

R474 10K
R476 47K

4.7/50 C409
C410 104

E   F   G   H

[VIDEO AMP]

Q201
LA73054

1	VCC1	AMP1.S	36
2	CV.IN	DRIVE1	35
3	SQUEEZE	VCC3	34
4	LETTER	CV.O	33
5	MUTE1	GND8	32
6	C.IN	C.OUT	31
7	GND1	C_DC	30
8	Y1.IN	GND7	29
9	MIX.SW	Y1.O	28
10	RGB.SW	GND6	27
11	Y2.IN	GND5	26
12	MUTE2	Y2.O	25
13	LPF.SW	VCC2	24
14	CB.IN	GND4	22
15	AMP2.S	GND4	22
16	CR.IN	CR.O	21
17	GND2	GND3	20
18	REG	DRIVE2	19

GAIN6DB
R208 1K
GAIN9DB
R209 1K
R211 1K
1_DRIVE
R210 1K
2_DRIVE
R212 0
CV
SW+5V
Y1
Y2
CB
CR
R213 1K
1_DRIVE
R214 1K
2_DRIVE

R207 4.7K
R206 4.7K

C212 1000/6.3   R215 75
R216 NC L201
R217 10K
BK1608LM182-T
R218 75

C217 104K

C213 470/6.3   75 R220
R221
L203
L202 0
R219 NC

C214 1000/6.3   68 R222
R224 NC L204
R223 75
BK1608LM182-T
L205
R226 100

C215 470/6.3   68 R225
R229 NC

C216 470/6.3   0 R230
R231 100
R234 NC L206
BK1608LM182-T

Q207 NC
Q206 NC   R273 NC

P202A

Y1
PB1 P201
PR1

P204A

Q481
TC7WU04FU

D-OUT1
R481 NC   C481 NC
R482 NC
R483 NC
R484 NC   C482 NC

R485 NC
SW+5V

L404
NCH-1471
2.2UH

Q411
TC74VHCU04T

C428 020
C430 R466
104K 330
R467 180
R468 180
C431 220
BK1608LM182-T
L407
R469 NC

P402
COAXAL_DIG.OUT

C425 220/6.3
R462 100K
R463 47K
C426 104

R461 100   C427 104K
R464 100K
C429 020
R465 100

C432 100/6.3
C433 10/4

Q412
TOTX179
IN
VCC
GND
OPTICAL_DIG.OUT

D-OUT0
SW+5V

L405
BK1608LM182-T

AMUTE/UCOM
D103 1SS352
RST
D104 1SS352
Q109
DTA114YKA

R455 150 (1/2W)
D401 EV5V 1SS352
C441 47/16
AMUTE/MAIN
D102 1SS352
A-12VD

150 (1/2W)
AMUTE/DAC
D101 1SS352
AMUTE
Q110
DTC114YKA

AMUTE/DAC
C421 470/16
C422 470/16
J1
[VLC CIRCUIT]

R129 22K
Q405

R435 1.5K

R457 4.7K
R458 3.3K
C423 1/50
R459 1M

AMUTE/MAIN
R417 10K
Q403
NJM4580M-D C437 330
R419 33K
R421 10K
Q403
NJM4580M-D
R423 10K
R425 1.5K
R427 22K

R437 1.5K
Q405
NJM4580M-D
R433 22K
C415 122
R431 22K

NJM4580M-D
R441 10K
Q405

C419 22/50
R443

100K R45
C424 223

R447 220
R449 220
Q407   Q407
R451 2.2K R453 2.2K
HN1C03F   HN1C03F

P401
RchOUT-1
LchOUT-1

221
R420 33K
C438 330
R424 10K
Q404
NJM4580M-D
R418 10K
Q404
221
R422 10K

R426 1.5K
R428 22K
Q404
C416 122
R432 22K

R434 22K
R438 1.5K
Q406
R436 1.5K
NJM4580M-D
A-12VD
R430 22K

C417 272
R439 10K
C418 272
R440 10K
Q406
NJM4580M-D
R442 10K

C420 22/50
R444 0

100K R46
C421 223

R448 220
R450 220
Q408   Q408
R452 2.2K R454 2.2K
HN1C03F   HN1C03F

KHz
A+12VD

C604 104 C603 104

P602

SCHEMATIC DIAGRAM-6

U30 : POWER SUPPLY UNIT (NGPS-0036-100-120V <CDD1N>)
(NGPS-0037-100-240V <CPA4P>)

SCHEMATIC DIAGRAM-1

U1 : DVD MAIN PC BOARD-1 NADG-7807

SCHEMATIC DIAGRAM-2

U1 : DVD MAIN PC BOARD NADG-7807-2

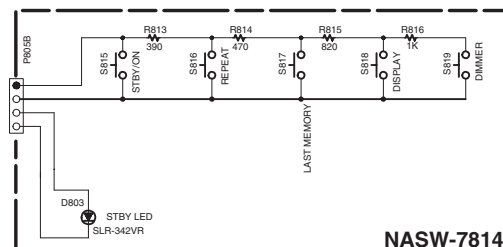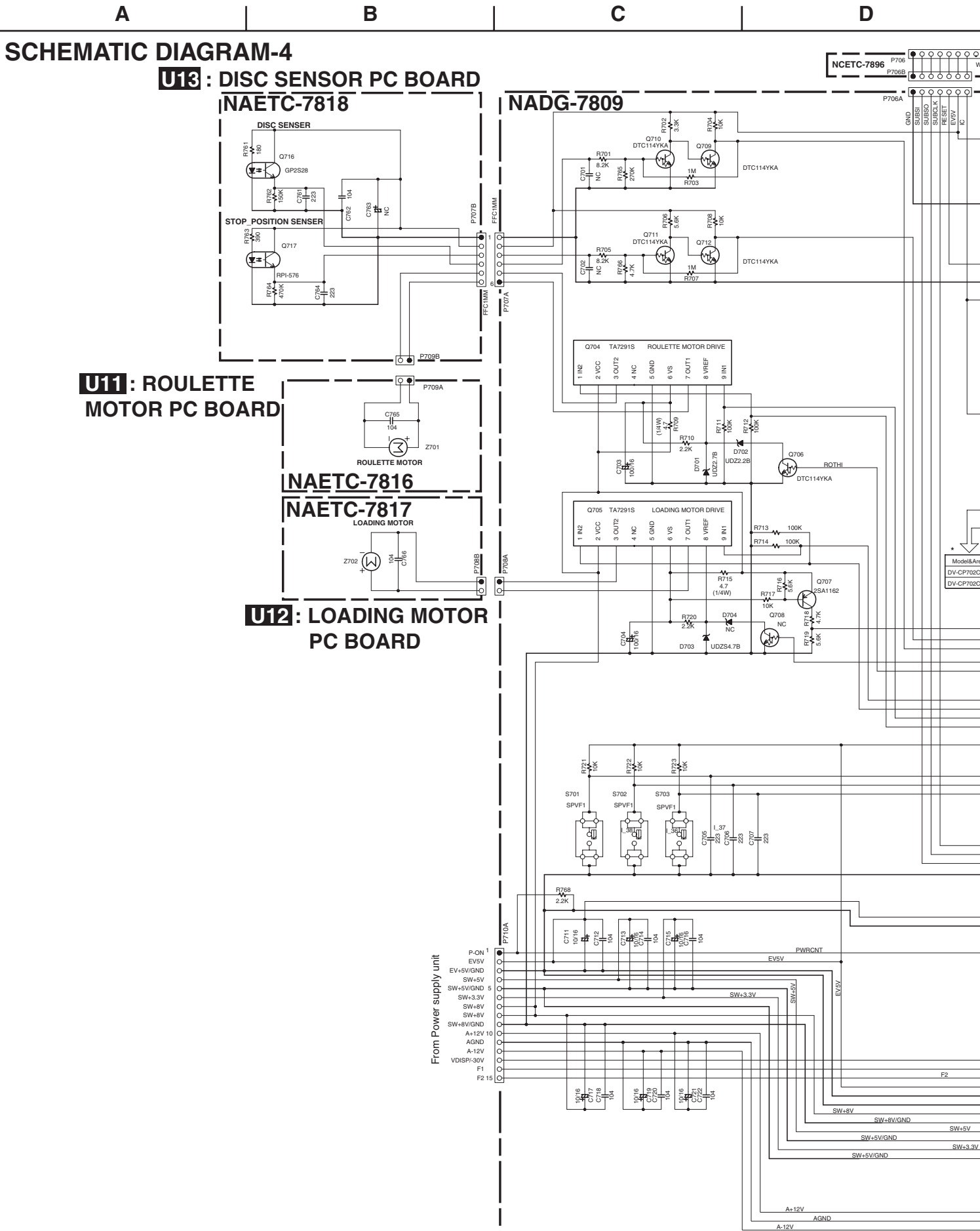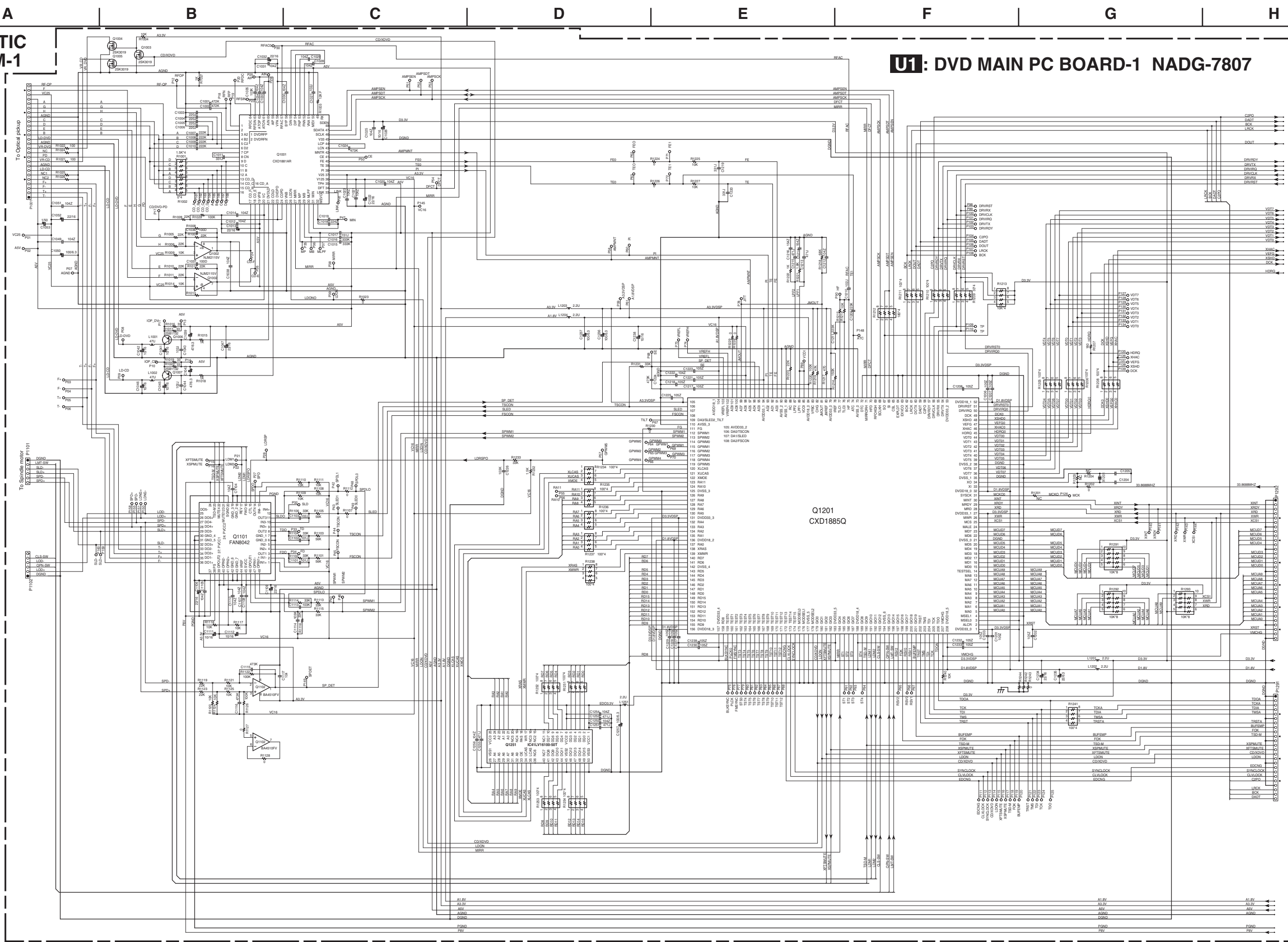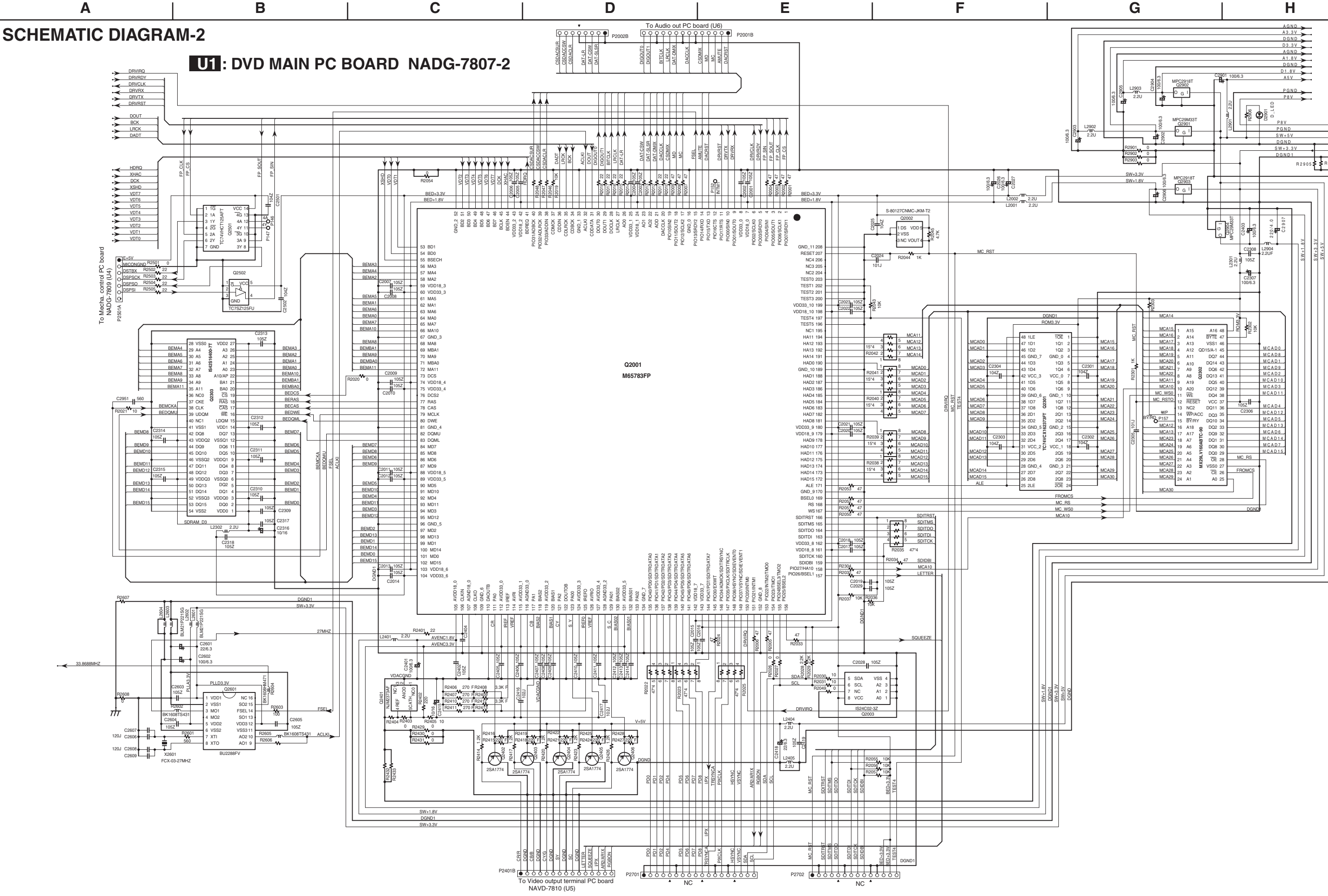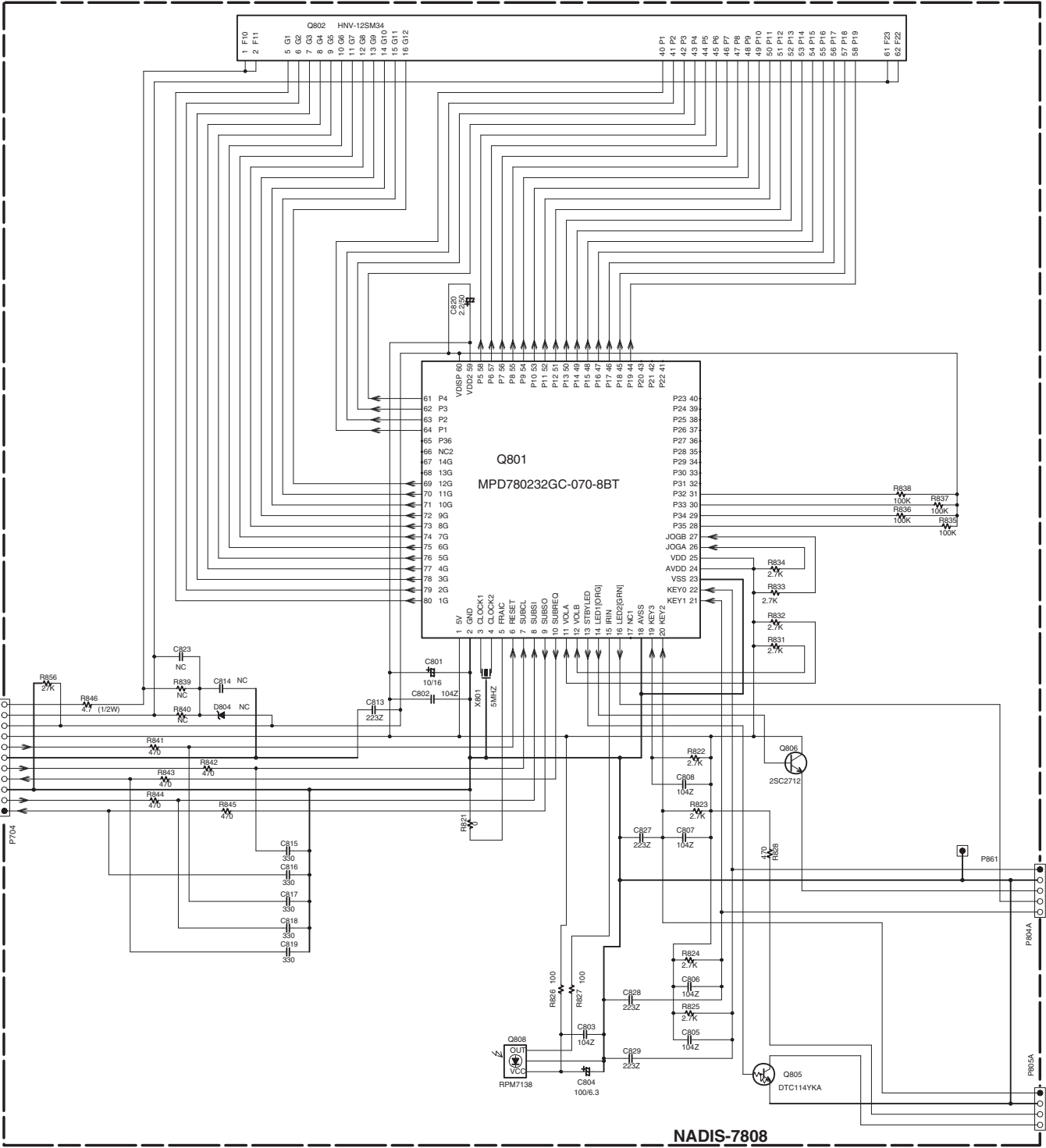# SCHEMATIC DIAGRAM-3

U3 : FRONT DISPLAY PC BOARD NADIS-7808

NOTE
- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨___⟩ IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030→3pF 330→33pF 331→330pF 333→0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED. THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⟨○○○⟩ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

Q801
MPD780232GC-070-8BT

Q802 HNV-12SM34

U7 : DISC SELECT SWITCH PC BOARD NASW-7812

NASW-7812

NADIS-7815

U10 : LED DISPLAY PC BOARD NADIS-7815

U8 : KEY OPERATION SWITCH PC BOARD NASW-7813

NASW-7813

U9 : STANDBY SWITCH PC BOARD NASW-7814

NASW-7814

From Mecha. control PC board
NADG-7809 (U4)

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.
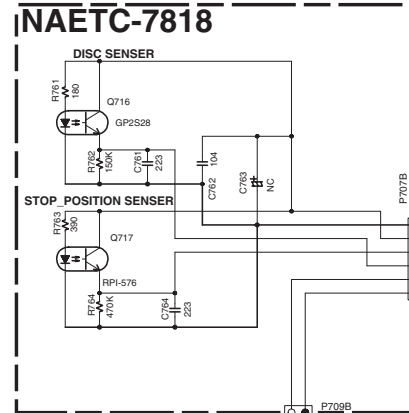
THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT,POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.
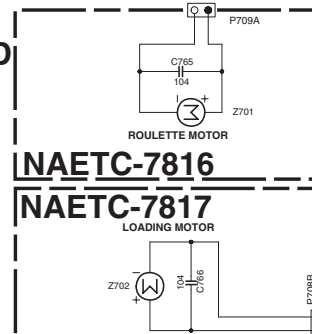
CDD1N:NGPS0036
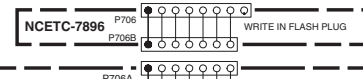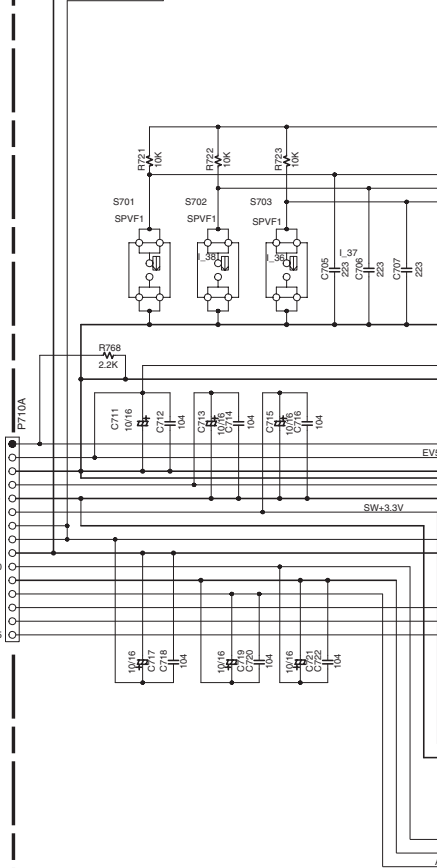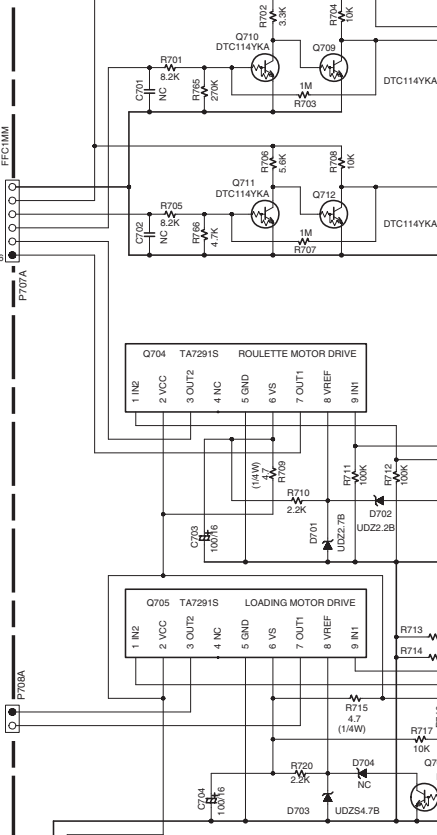CPA4P:NGPS0037
POWER SUPLLY UNIT

NADIS-7808

SCHEMATIC DIAGRAM-4

U13 : DISC SENSOR PC BOARD
NAETC-7818

NADG-7809

NCETC-7896 P706 WRITE IN FLASH PLUG
P706B
P706A

U4 : MECHANISM CONTROL PC BOARD NADG-7809

DISC SENSER
R791 180
Q716 GP2S28
R792 150K
C762 104 C783 NC
R793 390
STOP_POSITION SENSER
Q717
R794 470K C784 223
RPI-576

U11 : ROULETTE
MOTOR PC BOARD

P709A
C765 104 Z701
ROULETTE MOTOR

NAETC-7816
NAETC-7817

LOADING MOTOR
Z702 104 C766
P708B

U12 : LOADING MOTOR
PC BOARD

Q701
MPD78005X

200mS Delay
Q702
1 DS VDD
2 VSS
3 NC VOUT
S-80145

X701
4.5MHZ

Model&Area table:

Model&Area	R755	R756	R757	R758
DV-CP702CDD1N	NC	2.7K	NC	2.7K
DV-CP702CPA4P	NC	2.7K	0	NC

Q704 TA7291S ROULETTE MOTOR DRIVE
Q705 TA7291S LOADING MOTOR DRIVE

From Power supply unit

S701 SPVF1
S702 SPVF1
S703 SPVF1

To Video output PC board
To Audio output PC board
to Main circuit PC board NADG-7807 (U1)
to Front disp. PC board NADIS-7808 (U3)
to Main circuit PC board NADG-7807 (U1)

DV-CP702_ONLY

SCHEMATIC DIAGRAM-5

U5 : VIDEO OUTPUT TERMINAL PC BOARD NAVD-7810

U6 : AUDIO OUTPUT TERMINAL PC BOARD NAAF-7811

PC BOARD CONNECTION DIAGRAM

AC IN

CN1
AC-H
AC-G

U30 : Power supply unit
NGPS-0036-100-120V <CDD1N>
NGPS-0037-100-240V <CPA4P>

CN2

To Spindle motor PCB

From Pickup

U11: Roulette motor
PC board ETC7816

P709A

U13: Disc sensor PC board
NAETC-7818

P707B

P709B

U12: Loading motor PC board
ETC-7817

Z702

P708B

U9: Standby switch PC board

NASW-7814

LAST_MEMORY

REPEAT
DISPLAY

DIMMER

STBY

P805B

P805A

U3: Front display
NADIS-780

U10: LED Display

P806B

U1: DVD Main circuit PC board NADG-7807

P1292 P1291

P2001B

DACRST
AMUTE
MC
CSDMIX
DACCLK
DGND1
D-DMIX
LRCK
BCTCLK
DOUT1
DOUT2

P2002B

D-SLSR
DGND1
D-CSW
D-LSR
DGND1
CS-LR
CS-CSW
CS-SLR

P2501A

E+5V
MICONG
DSTBX
DSPSCK
DSPSO
DSPSI
NA

P2401B

CR/R
DGND
DB/B
DGND
CY/G
DGND
SC
DGND
LETTER
SQUEEZE
I/PX
AR2/AR1X
RGBON

U1201

Q2001

SPD+
SPD-
SLD+
SLD-
LMT-SW
DGND

P1101

P1001

SW+5V

P8V

P2702

P2901A

U5: Video output terminal PC board NAVD-7810

P301 P402 Q412 P202A P202B P201

P404A

P204A Y B R

VDIOFF
SW5V
GND

P701B

CR/R
CB/B
YC/G
SY
LETR
SQWZ
IPX
AR1/ARX
RGBON

P2401A

U3: Mechanism control circuit PC board NADG-7809

P2501B

DSPSI
DSPSO
DSPSCK
DSTBX
GND
EV5V

SW8V
SW8V
SW8VGND
SW5VGND
SW5V
SW3.3
GND

P2901B

GND
SW3.3
SW5VGND
SW5V
BG

P707A

P701A

P711A

P702A

P708A

F
F
VDISP
A-12
AGND
A+12
SW8GND
SW8
SW33
GND
SW5V
EVGND
EV5V
P-ON

P710A

P706A

GND
RST
SSO
SSI
EV5V
IC

SRST
SDO
SPEO
SCLK
GND
EV5V
VDISP
F
F

SDI

P704A

U6: Audio output terminal PC board NAAF-7811

P602 P601 P401

P2001A

DACRST
MC
CSDMIX
DACCLK
DAT-DMIX
BITCLK
DIGO
DIG1

AMUTEM
A-12V
AGND
A+12V
SW3.3V
SW5V
EVGND
EV5V
AMUTE
RST
RK

P702B

P403

Display PC board NADIS-7815

P704

F1
F2
VDISP
EV5V
SUBRST
EVGND
A3
SCLK
SUBEO
GND
ISUBDI
SUBOS
SUBIS

P861

P804A

Q802

U8: Key operation switch PC board NASW-7813

S814 S813 S811 S810 S809
S812

P804B

DOWN UP
S834 S833

PAUSE CHAIN_MODE STOP PLAY
S832 S831 S830 S829

P802B

U7: Disc select PC board NASW-7812

P802A

S801 S902 S803 S804 S805 S806 S807 S808
OPEN/CLOSE DISC6 DISC5 DISC4 DISC3 DISC2 DISC1 DISC/SKIP

P806A

<NOTE>

FFC mark

PC BOARD CONNECTION DIAGRAM

AC IN

U30 : Power supply unit
NGPS-0036-100-120V <CDD1N>
NGPS-0037-100-240V <CPA4P>

To Spindle motor PCB

From Pickup

U1: DVD Main circuit PC board NADG-7807

U5: Video output terminal PC board NAVD-7810

U3: Mechanism control circuit PC board NADG-7809

U6: Audio output terminal PC board NAAF-7811

U11: Roulette motor PC board ETC7816

U13: Disc sensor PC board NAETC-7818

U12: Loading motor PC board ETC-7817

U9: Standby switch PC board

NASW-7814

STBY

LAST_MEMORY

REPEAT

DIMMER

DISPLAY

U3: Front display PC board NADIS-7808

U8: Key operation switch PC board

NASW-7813

S814 S813 S811 S810 S809

S812

DOWN S833 UP PAUSE CHAIN_MODE STOP PLAY
S834 S832 S831 S830 S829

U10: LED Display PC board   NADIS-7815

U7: Disc select PC board   NASW-7812

S801 S802 S803 S804 S805 S806 S807 S808
OPEN/CLOSE DISC6 DISC5 DISC4 DISC3 DISC2 DISC1 DISC/SKIP

<NOTE>

FFC mark

PRINTED CIRCUIT BOARD VIEW-1

U1 : **DVD MAIN CIRCUIT PC BOARD (NADG-7807)**

: Side A pattern

: Sise B pattern

PRINTED CIRCUIT BOARD VIEW-2

U1 : DVD MAIN CIRCUIT PC BOARD (NADVG-7807)
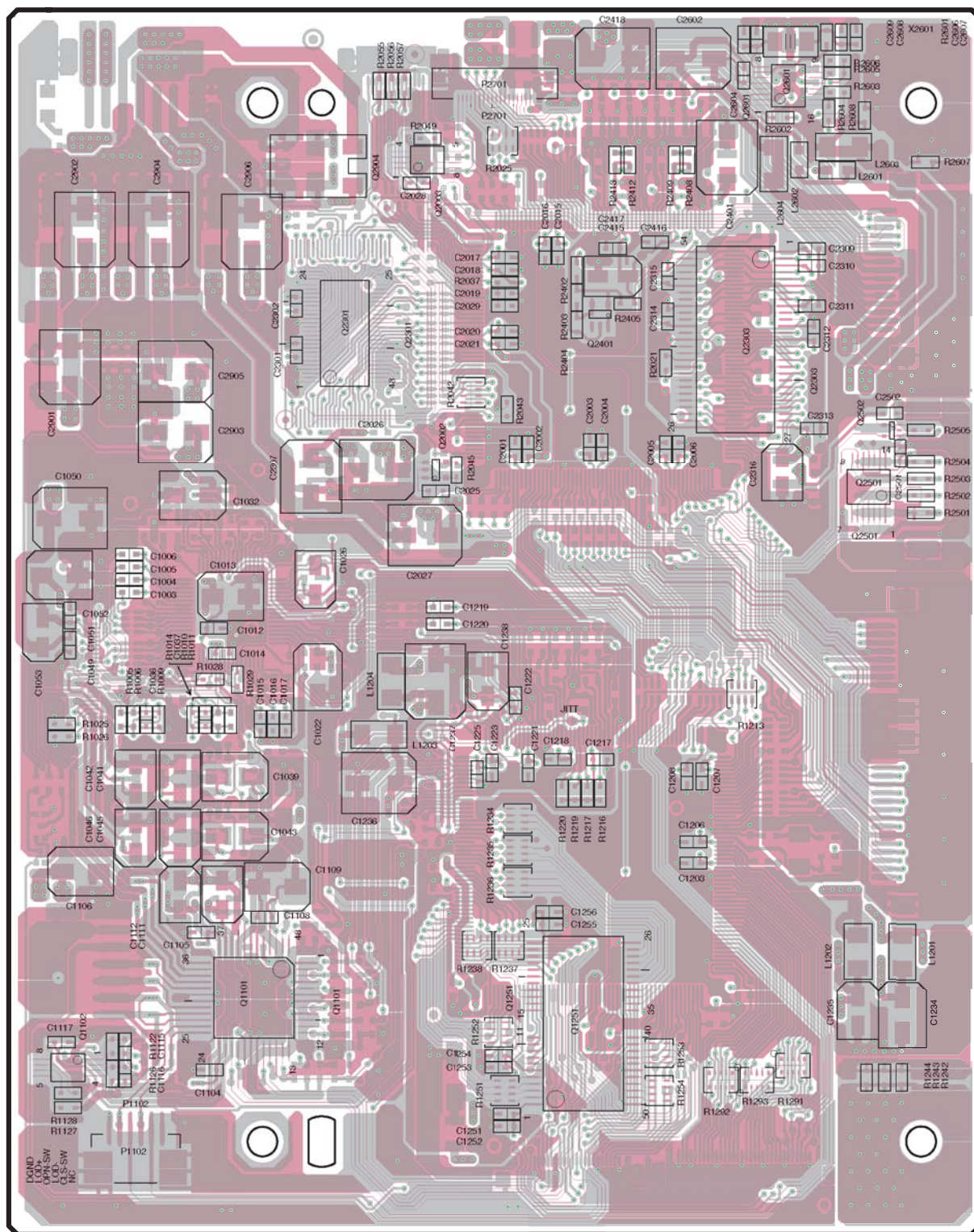
: Side B pattern
: Side A pattern

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-3

U6 : AUDIO OUTPUT TREMINAL PC BOARD NAAF-7811
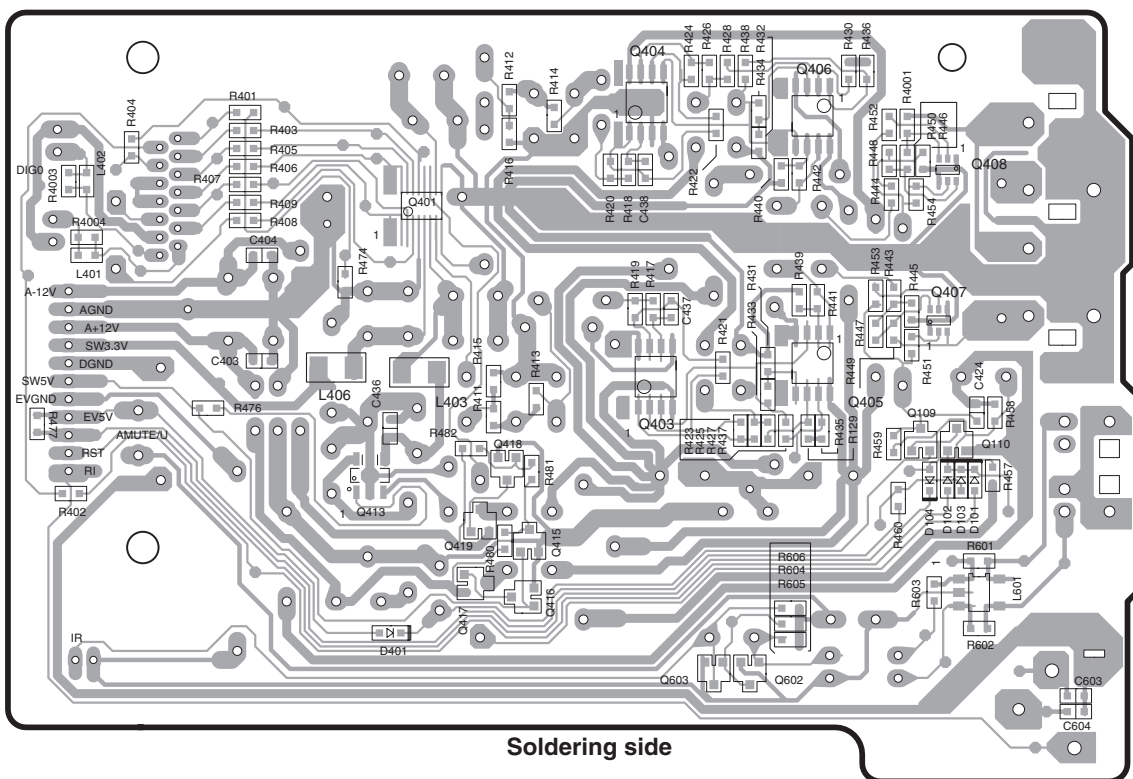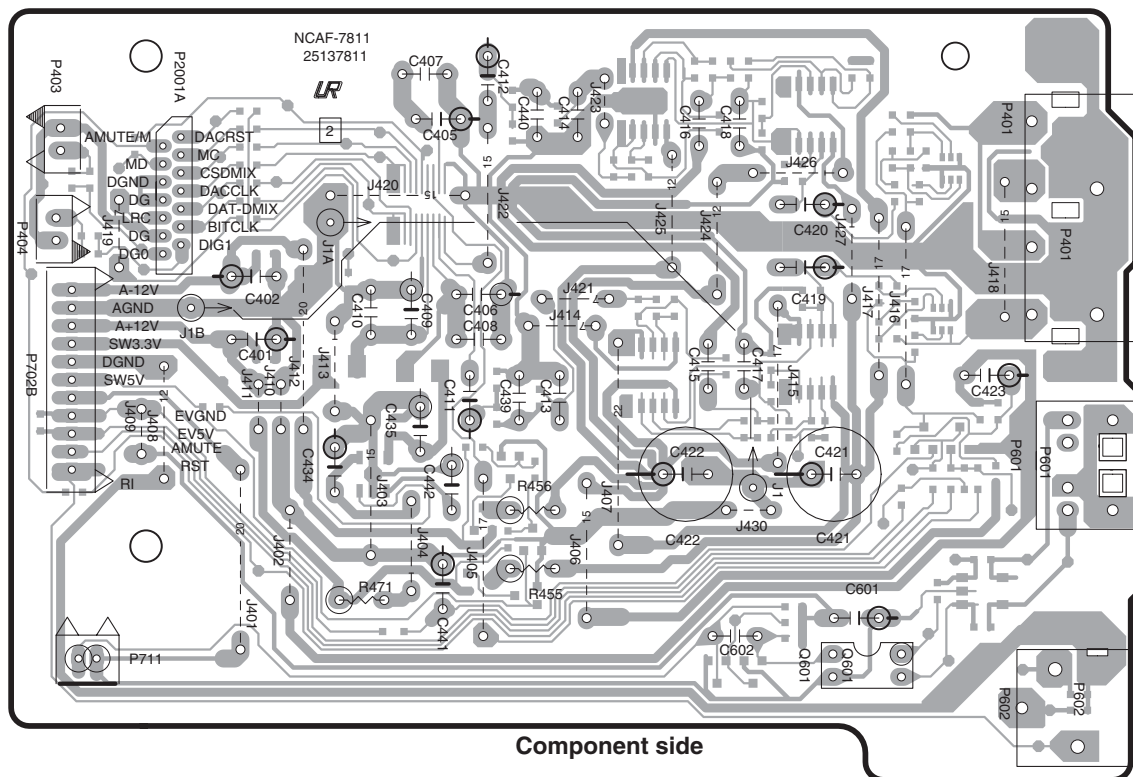
Component side

Soldering side

A | B | C | D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-4

U5 : **VIDEO OUTPUT TERMINAL PC BOARD NAVD-7810**

Component side

Soldering side

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-5

U3 : FRONT DISPLAY PC BOARD NADIS-7808
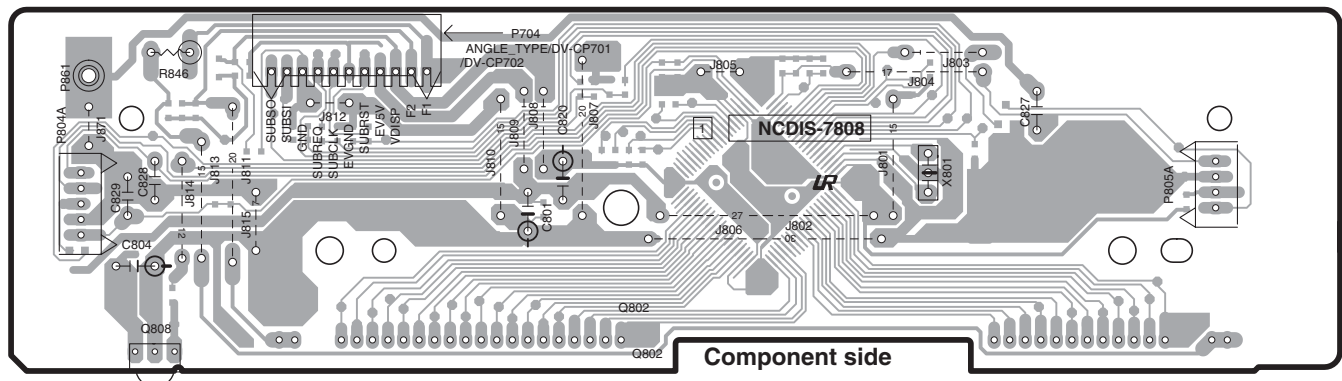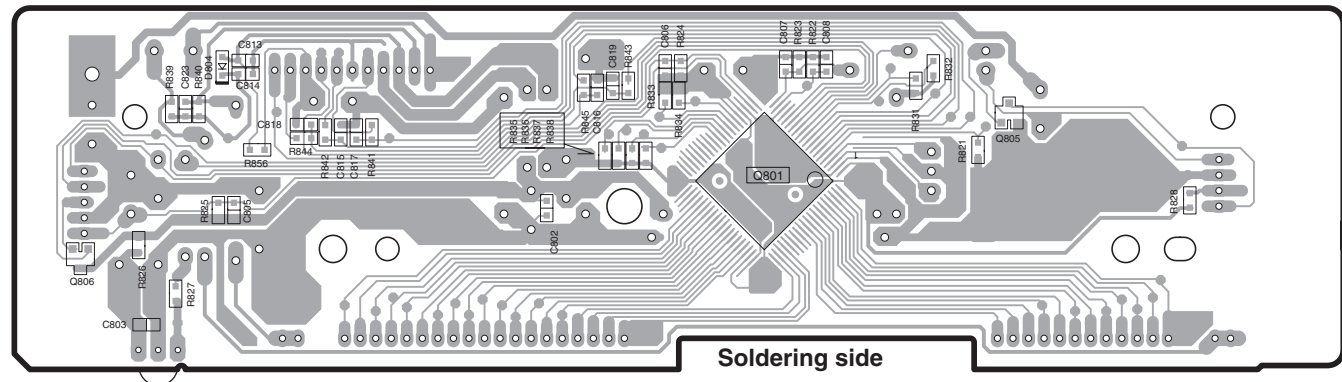
Component side

Soldering side

U9 : STANDBY SWITCH PC BOARD NASW-7814

Component side

Soldering side

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-6

U8 : KEY OPERATION PC BOARD NASW-7813

Component side

Soldering side

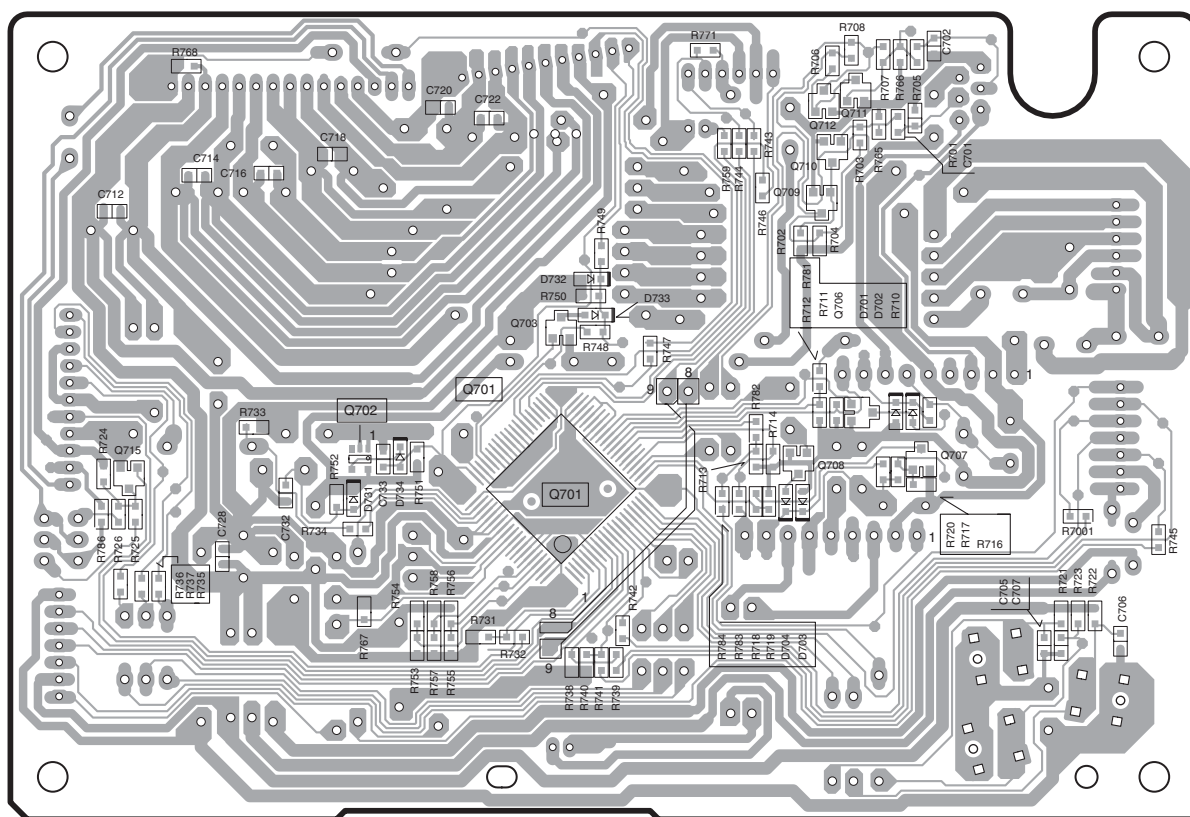**U7 : DISC SELECT SWITCH PC BOARD NASW-7812**

Component side
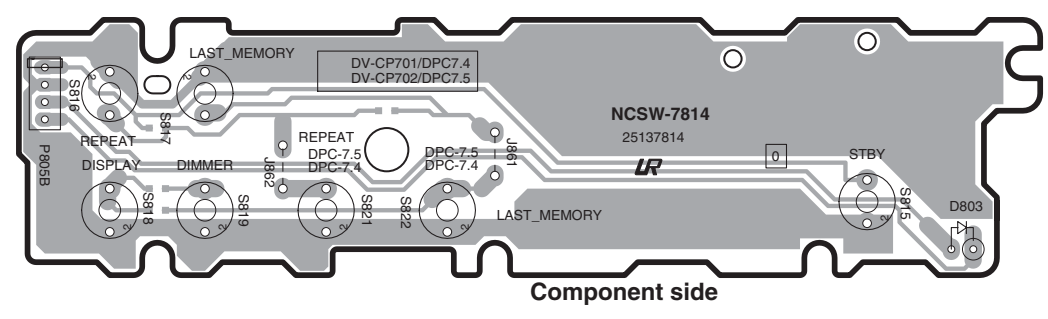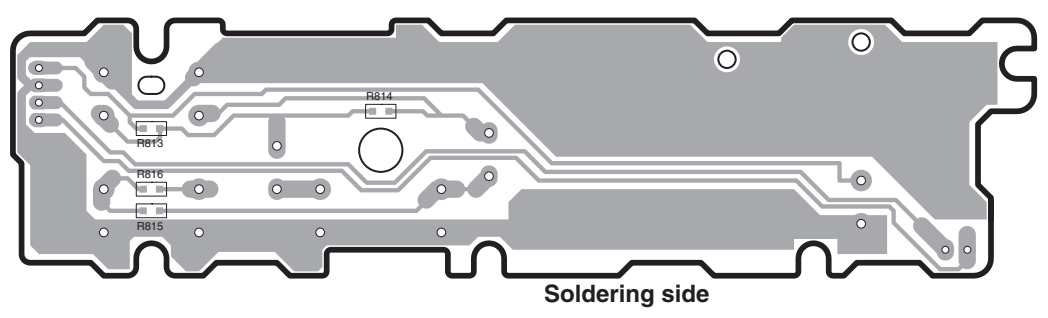
Soldering side

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-7

U4 : MECHANISM CONTROL PC BOARD NADG-7809
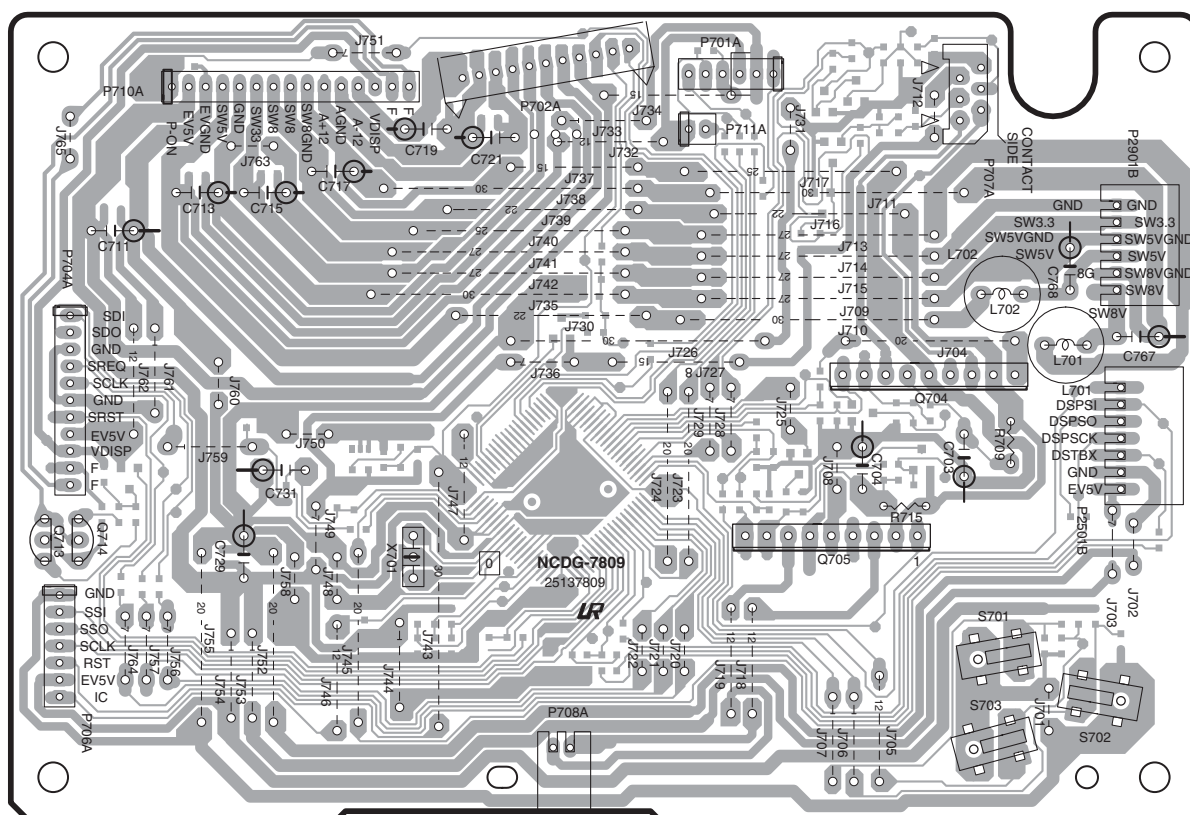
Component side

Soldering side

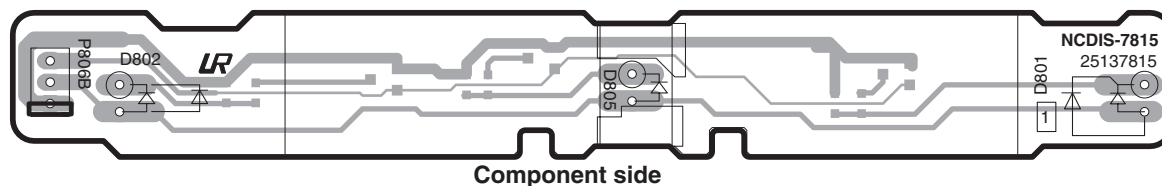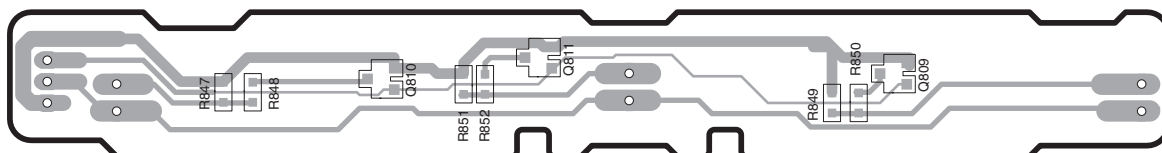|	A	B	C	D

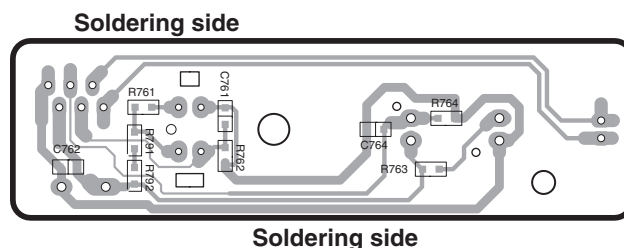# PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-8

U10 : LED DISPLAY PC BOARD NADIS-7815
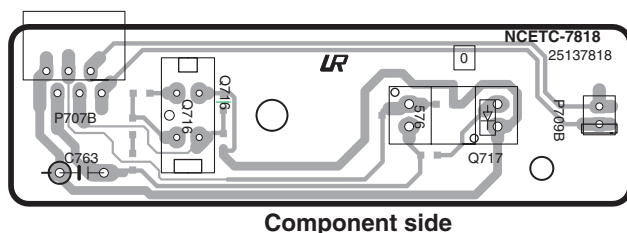
Component side

U13 : DISC SENSOR PC BOARD NAETC-7818

Component side

Soldering side

U11 : ROULETTE MOTOR PC BOARD NAETC-7816

Component side

Soldering side

U12 : LOADING MOTOR PC BOARD NAETC-7817

Component side

Soldering side
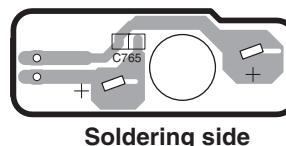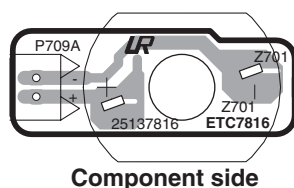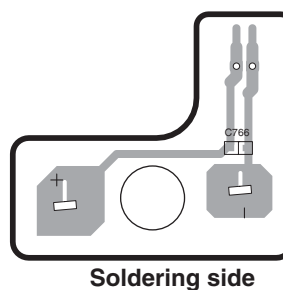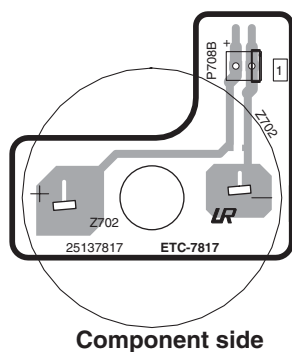
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1102: BA4510FV OPE. AMP

Block diagram

OUT1	1		8	V_{CC}
Đ IN1	2	1ch	7	OUT2
+ IN1	3	2ch	6	Đ IN2
V_{EE}	4		5	+ IN2
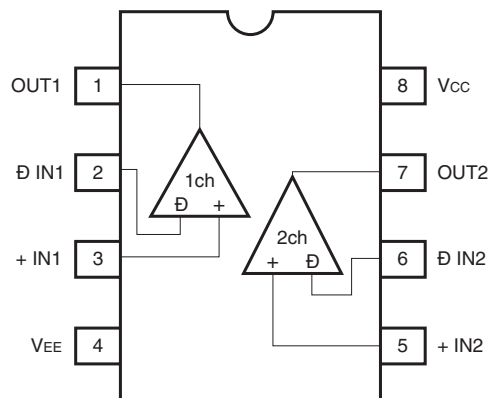
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2601: BU2288FV CLOCK GENERATOR

PIN CONFIGURATION

Pin	Left	Right	Pin	
1	VDD2	OE	16	
2	VSS2	CLK33M	15	→ 33.8688MHz
3	CLK27M	FSEL1	14	← L or NC (pull up)
4	TEST	CLK16M	13	→ 16.9344MHz
5	AVDD	DVDD	12	
6	AVSS	DVSS	11	
7	XTALOUT	CLK512FS	10	→ 24.576 or 22.5792MHz
8	XTALIN	CLKA	9	→ 16.9344 or 36.864MHz
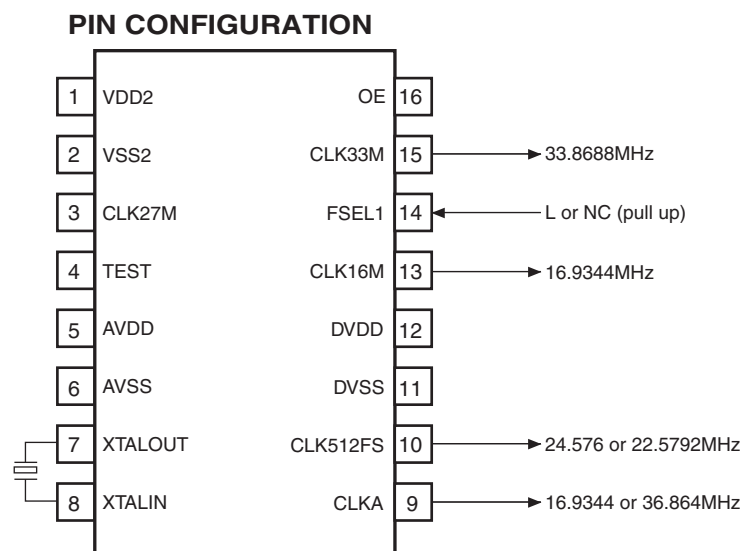
PIN FUNCTION

PIN No.	PIN NAME	FUNCTION
1	VDD2	Digital VDD for 27MHz clock output
2	VSS2	Digital GND for 27MHz clock output
3	CLK27M	27MHz clock output
4	TEST	Output for test
5	AVDD	Analog VDD
6	AVSS	Analog GND
7	XTALOUT	Standard crystal output
8	XTALIN	Standard crystal input
9	CLKA	Clock output (FSEL1=Open: 16.9344MHz, FEL1=36.864MHz)
10	CLK512FS	Clock output (FSEL1=Open: 22.5792MHz, FEL1=24.576MHz)
11	DVSS	Digital GND
12	DVDD	Digital VDD
13	CLK16M	16.9344MHz clock output
14	FSEL1	Output select: with pull up Open: 16.9344MHz (9pin), 22.5792MHz (10pin) L: 36.864MHz (9pin), 24.576Mhz (10pin)
15	CLK33M	33.8688MHz clock output
16	OE	Output enable (open: enable, L: disable): with pull up

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1001 : CXD1881BR DVD ANALOG FRONTEND-1

PIN LAYOUT

Pin	Signal
48	RX
49	MEV
50	VNA
51	FNN
52	FNP
53	DIP
54	DIP
55	DIN
56	BYP
57	RFAC
58	VPA
59	AIP
60	AIN
61	ATON
62	ATOP
63	RFSIN
64	RFDC

CXD1881BR

Top pins (48–33): SDEN (48), SDATA (47), SCLK (46), V33 (45), LCP (44), LCN (43), MNTR (42), CE (41), FE (40), TE (39), PI (38), V25 (37), V125 (36), TPH (35), DFT (34), LINK (33)

Right pins (32–17): MEVO (32), MIN (31), MLPH (30), MB (29), MP (28), MIRR (27), LDON (26), VNB (25), CDPD (24), DVDPD (23), COLD (22), DVDLD (21), VC (20), VPB (19), CD_E (18), CD_F (17)

Bottom pins (1–16): DVDRFN (1), DVDRFN (2), A2 (3), B2 (4), C2 (5), D2 (6), CP (7), CN (8), D (9), C (10), B (11), A (12), CD_D (13), CD_C (14), CD_B (15), CD_A (16)

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1001 : CXD1881BR DVD ANALOG FRONTEND-2

Pin labels (top): ATOP 62, ATON 61, AIN 60, AIP 59, FNP 53, FNN 52, DIN 55, DIP 54, RFAC 57

AGC HOLD RFCR b3, HOLDEN CDR b6

DVDRFP 1, DVDRFN 2, AFSIN 63 — MUX — ATT

SIGR b7-4 ATT

SIGR b3 INPUT SEL

RFCR b7-6 INPUT IMP SEL

INPUT BIAS — AGC

FCCR b7-0 FBCR b6-0

PROGRAMMABLE EQUALIZER DIFFERENTIATOR

FULL WAVE RECTIFIER

CGR b1 OUTPUT INHIBIT

AGC CHARGE PUMP

56 BYP
49 RC

RFCR b5-4 INPUT IMP SEL

SSOUT — Clamp & Env

AGCO

CAR b1-0 Env/Clamp — TENV

CAR b3-2 SIGDET — Level DAC

CCR b4-0 FE offset 5

+/-6dB, 4bit GCA

A 12, CD_A 16, B 11, CD_B 15, C 10, CD_C 14, D 9, CD_D 13 — MUX

W/LPF GCA (A, B, C, D)

B+D, SUM Amp., A+C

GCA+/-4dB

70kHz LPF — Offset cancel — GCA

40 FE

FOCR b7-4 FS Gain 4

FOCR b3-0 FO Gain 4

70kHz LPF — Offset cancel 5

Pll

38 PI

SIGR b2-0 12dB is added @ high gain mode (CDR b5=1)

A+D, B+C

CTCR b7 BCA DET — TOPHLD — COMP

CBR b3-2 2 — DAC

SEL 34 DFT

35 TPH

CGR b0 OUTPUT INHIBIT

61 RFDC

CBR b1-0 SEL

PDCR b3 CD/DVD

4D SUM

SIGR b2-0 12dB is added @ high gain mode (CDR b5-1)

TOPHLD TOPHLD — Offset cancel — GCA 0-+8dB, 4bit

CTCR b3-0 CO Gain 4

CER b4-0 CE offset 4

CAR b7-4 TE MASK SEL

41 CE

PI FE TE CE V25 V125 V25/3 — MON SEL — 42 MNTR

PIOR b7-5 3

6dB is added @ high gain mode (CDR b5-1)

RESUM

CD_E 18 GCA

CD_F 17 GCA

+/-4dB — +3dB

RFCR b2-0 3

TRCR2 b3-0 3B 4

CDR b5 High Gain

CFR b2-0 CE-ATT 3

CFR b3 CEPOL

LPF ATT Pol sel. buff (-12dB)

44 LCP
43 LCN
7 CP
8 CN

12dB is added @ high gain mode (CDR b5=1)

A2 2, B2 4, C2 5, D2 6 — GCA EQ

Comp.

PHASE DETECTOR
PHASE DETECTOR

MUX — LPF — SUB — Offset cancel — GCA — TE RST

39 TE

RFCR b2-0 3
TRCR2 b6-4 DPD EQ 3
TRCR b6 DPD COMP HYS ON
VC

PDCR b3 CD/DVD

TRCR2 b7 CP/CN Low imp

CEFDB

TRCR b5-0 TT offset 6

CFR b7-5 TR Gain 3

for TE, FE & CE output ref
V25/3 V25/2

for PI output ref. 36 V125

CDR b2 37 V25

VCI for servo input — VC 20 VC

CCR b5 APC SEL DVD/CD

AGCO

CDR b4 LD H/L

CTCR b5-4 MEVO SEL 2

MRCR b7-0 drop rate control

MRCR b6-4 Mirr Comp ATT Level 3

CHR b7-6 Mirr Defect Comp ATT

CONTROL Signal To each block

48 SDEN
47 SDATA
46 SCLK

SERIAL POET REGISTER

CDR b3

DVDPD 23, CDPD 24 — Dual APC

Btm Env

AGC BTM ENV, BENV, PII — MUX

MUX — TOP HLD, TOP ENV, TOP HLD, TOP ENV

ATT ATT — MUX MUX — GCA Offset

Btm Clamp & clip

Vref

MUX — CGR b5-4 Gain CDR b7 LINKEN

MUX — CCR b7 DISK DET

V33 for output buff 45 V33

Pin labels (bottom): LDON 26, CDLD 22, DVDLD 21, MEV 50, MEVO 32, MIN 31, MP 28, MB 29, MLPF 30, LINK 33, MIRR 27, VPA 58, VPB 19, VNA 51, VNB 25

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1001 : CXD1881BR DVD ANALOG FRONTEND-3
TERMINAL DESCRIPTION

Power supply

Pin Name	I/O	Description
VPA	-	Power supply for RF section and serial port.
VPB	-	Power supply for servo section.
VNA	-	Ground pin for RF section and serial port section.
VNB	-	Ground of servo section.
V33	-	Power supply for output buffer.
V25	-	Reference voltage pin for servo output.

Input pin

Pin name	I/O	Description
DVDRFP, DVDRFN	I	RF signal: RF attenuate deferential signal input pin.
RFSIN	I	RF signal: Single end RF signal input pin.
AIP, AIN	I	AGC Amp. input: Input pin of deferential amp.
DIP, DIN	I	Analog input pin for RF single buffer.
A, B, C, D	I	Interface input pin of photo detector.
A2, B2, C2, D2	I	Interface input pin of photo detector. AC coupling input pin for DPD from main beam photo detector.
CD_A, B, C, D	I	Interface input pin of CD photo detector.
CD_E, F	I	Interface input pin of CD photo detector.
MIN	I	RF signal input pin for mirror detection.
DVDPD	I	APC input pin. DVD APC input pin from monitor photo diode.
CDPD	I	APC input pin. CD APC input pin from monitor photo diode.
LDON	I	APC output control pin. H: LD output signal is active.
LINK	I	Link signal input pin.
	O	Mirror monitor signal output pin.

Output pin

Pin name	I/O	Description
ATOP, ATON	O	Deferential attenuation output pin.
FNP, FNN	O	Deferential normal output pin.
RFAC	O	Single end normal output pin
RFDC	O	RF signal output pin.
FE	O	Focus error signal output pin.
TE	O	Tracking error signal output pin.
CE	O	Center error signal output pin.
MEVO	O	RFDDC bottom envelope output pin.
DFT	O	Defect output pin.
MIRR	O	Mirror detection output pin.
OI	O	Puu in signal output pin.
DVDLD	O	APC output pin. For controlled laser power. (DVD APC)
CDLD	O	APC output pin. For controlled laser power. (CD APC)
MNTR	O	Monitor output pin.

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
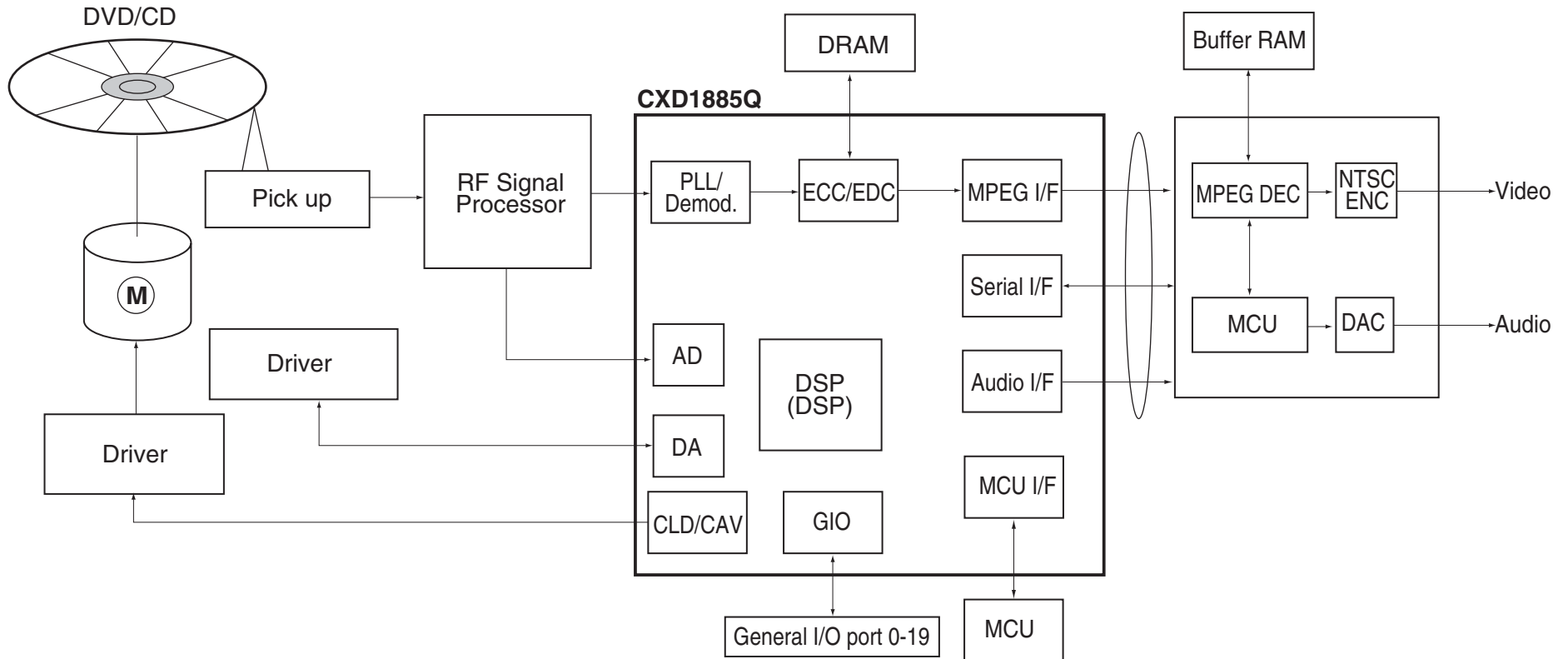
Q1001 : CXD1881BR DVD ANALOG FRONTEND-4
TERMINAL DESCRIPTION

Analog pins

Pin Name	I/O	Description
BYP	-	The RF AGC integration capacitor CBYP is connected between BYP and VPA.
CP	-	Deferential phase tracking LPF pin.
CN	-	Deferential phase tracking LPF pin.
LCP	-	The LPF terminal which lens shift offset cancel.
LCN	-	The LPF terminal which lens shift offset cancel.
MP	-	MIRR top hold pin.
MB	-	MIRR top hold pin.
MEV	-	RFDC bottom envelope pin.
MLPF	-	Mirror LPF pin.
TPH	-	PI top hold pin.
VC	-	Reference voltage output pin.
V125	-	Reference voltage output pin.
RX	-	Connect the reference resistor.

Serial port pin

Pin Name	I/O	Description
SDEN	I	Serial data enable input pin.
SDATA	I/O	Serial data input and output pin.
SCLK	I	Serial clock input pin.

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-1
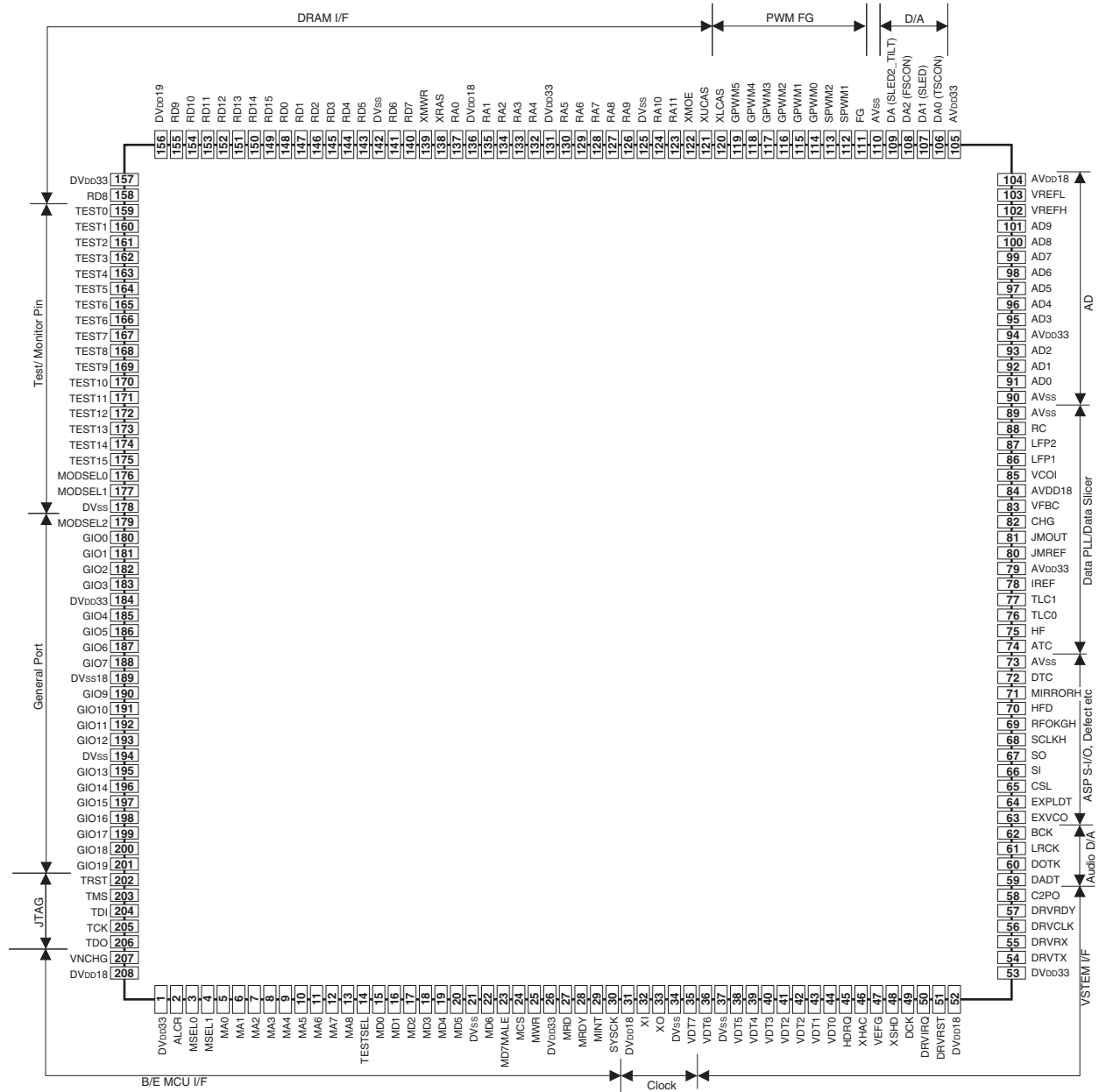
BLOCK DIAGRAM

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
Q1201: CXD1885Q (DVD DSP)-2

The functional block controlled by DSP

The functional block which can choose control by DSP or MCU

The clock / mode setting register of operation for DSP. (MCU or VSTEM serial data)
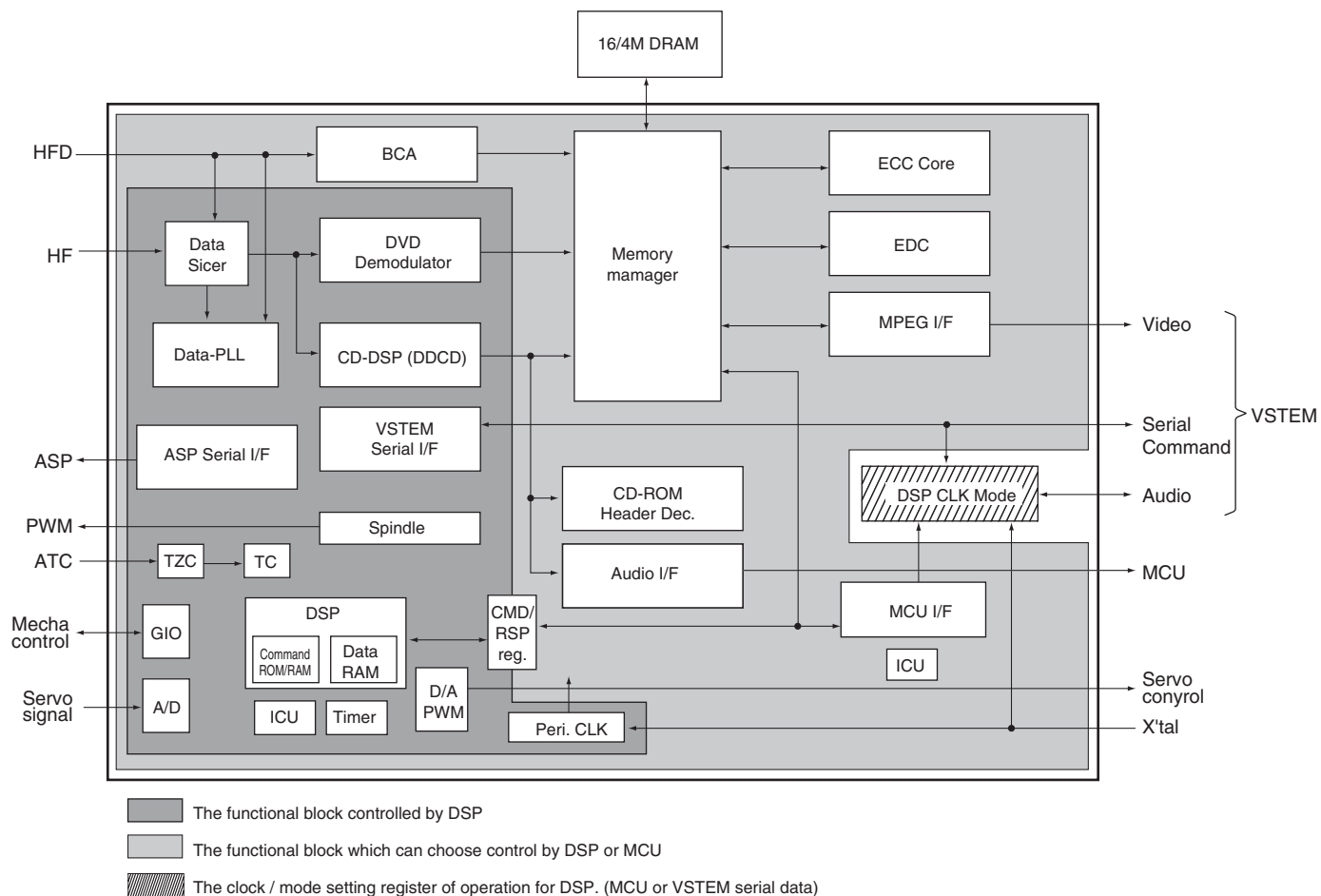
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-3

PIN LAYOUT

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
Q1201: CXD1885Q (DVD DSP)-4

No.	Sign	I/O	Classification	Description
1	DVDD33	P	VDD & GND	Digital power supply (3.3V)
2	ALCR	I	MCU I/F	Chip reset input port. L: Reset mode
3	MSEL0	I	MCU I/F	MUCH I/F mode select 0
4	MSEL1	I	MCU I/F	MUCH I/F mode select 1
5	MA0	I/O	MCU I/F	MUCH address input 0 / Data in/ out 0 port
6	MA1	I/O	MCU I/F	MUCH address input 1 / Data in/ out 1 port
7	MA2	I/O	MCU I/F	MUCH address input 2 / Data in/ out 2 port
8	MA3	I/O	MCU I/F	MUCH address input 3 / Data in/ out 3 port
9	MA4	I/O	MCU I/F	MUCH address input 4 / Data in/ out 4 port
10	MA5	I/O	MCU I/F	MUCH address input 5 / Data in/ out 5 port
11	MA6	I/O	MCU I/F	MUCH address input 6 / Data in/ out 6 port
12	MA7	I/O	MCU I/F	MUCH address input 7 / Data in/ out 7 port
13	MA8	I	MCU I/F	MUCH address input 8 / Data in/ out 8 port
14	TESTSEL	I	MCU I/F	Test select input port
15	MD0	I/O	MCU I/F	MUCH data in/ out 0 port. (LBS.)
16	MD1	I/O	MCU I/F	MUCH data in/ out 1 port
17	MD2	I/O	MCU I/F	MUCH data in/ out 2 port
18	MD3	I/O	MCU I/F	MUCH data in/ out 3 port
19	MD4	I/O	MCU I/F	MUCH data in/ out 4 port
20	MD5	I/O	MCU I/F	MUCH data in/ out 5 port
21	DVSS	P	VDD & GND	Digital GOD
22	MD6	I/O	MCU I/F	MUCH data in/ out 6 port
23	MD7	I/O	MCU I/F	MUCH data in/ out 7 port. (MOB)
24	MALE	I	MCU I/F	MUCH address latch signal input port
25	MCS	I	MCU I/F	MUCH chip select signal input port
26	MWR	I	MCU I/F	MUCH write strobe signal input port
27	DVDD33	P	VDD & GND	Digital power supply (3.3V)
28	MRD	I	MCU I/F	MUCH read strobe signal input port
29	MRDY	O	MCU I/F	MUCH reedy signal output port. L: Wait condition
30	MINT	O	MCU I/F	MUCH interruption output signal port. L: demand state of interruption
31	SYSCK	O	Clock	Clock monitor output port
32	DVDD18	P	VDD & GND	Digital power supply (1.8V), for internal logic circuit
33	XI	I	Clock	Crystal oscillator connection port
34	XO	O	Clock	Crystal oscillator connection port
35	DVSS	P	VDD & GND	Digital GOD
36	VDT7	O	VSTEM A/V	MPEG data output 7 port
37	VDT6	O	VSTEM A/V	MPEG data output 6 port
38	DVSS	P	VDD & GND	Digital GOD
39	VDT5	O	VSTEM A/V	MPEG data output 5 port
40	VDT4	O	VSTEM A/V	MPEG data output 4 port
41	VDT3	O	VSTEM A/V	MPEG data output 3 port
42	VDT2	O	VSTEM A/V	MPEG data output 2 port
43	VDT1	O	VSTEM A/V	MPEG data output 1 port
44	VDT0	O	VSTEM A/V	MPEG data output 0 port
45	HDRQ	I	VSTEM A/V	MPEG data request input port
46	XHAC	O	VSTEM A/V	Data valid output port
47	VEFG	O	VSTEM A/V	BECK error select (Flag) output port. L: Error selector
48	XSHD	O	VSTEM A/V	DVD first sector flag signal output port
49	DCK	O	VSTEM A/V	Data strobe signal output port
50	DRVIRQ	O	VSTEM Command	Interrupt request output port. (for host)
51	DRVRST	I	VSTEM Command	Drive H/W reset input port. L: reset
52	DVSDD18	P	VDD & I/F	Digital power supply (1.8V), for internal logic circuit
53	DVSDD33	P	VDD & I/F	Digital power supply (3.3V), for I/O
54	DRVTX	O	VSTEM Command	Serial data output port (for host)
55	DRVRX	I	VSTEM Command	Serial data input port (from host)
56	DRVCLK	I	VSTEM Command	Clock signal input port
57	DRVRDY	O	VSTEM Command	Drive ready signal output port. L: ready condition
58	C2PO	O	Audio I/F	CD-DSL C2 pointer output port
59	DADT	O	Audio I/F	Audio serial data output port
60	DOTX	O	Audio I/F	Digital audio output port
61	LRCK	O	Audio I/F	L/R clock output port
62	BCK	O	Audio I/F	Audio-bit clock output port
63	EXVCO	I	TEST/ Monitor	External channel clock input port
64	EXPLDT	I	TEST/ Monitor	External FRO data input port
65	CSL	O	ASP I/F	FRO signal processing port. Latch signal output control

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
Q1201: CXD1885Q (DVD DSP)-5

No.	Sign	I/O	Classification	Description
66	SI	I	ASP I/F	FRO signal processing port. Serial data input control
67	SO	O	ASP I/F	FRO signal processing port. Serial data output control
68	SCLKH	O	ASP I/F	FRO signal processing port. Serial clock output control
69	RFOKGH	I	ASP I/F	FRO signal OK output port
70	HFD	I	ASP I/F	FRO lack signal input port
71	MIRRORH	I	ASP I/F	Detect mirror signal input port. H: mirror detect
72	DTC	I	ASP I/F	Track cross signal input port
73	AVSS	P	VDD & GND	Analog GND
74	ATC	I	Data PLL	Track cross signal input port. (Analog level input)
75	HFD	I	Data PLL	RF signal input port
76	TLC0	O	Data PLL	Asymmetry charge pump output port 0
77	TLC1	O	Data PLL	Asymmetry charge pump output port 1
78	IREF	I	Data PLL	Reference current setting port for asymmetry circuit
79	AVDD33	P	VDD & GND	Analog voltage port. 3.3V
80	JMREF	I	Data PLL	Reference current setting port for jitter monitor
81	JMOUT	O	Data PLL	Jitter monitor output port
82	CHG	I	Data PLL	Reference setting pin of charge pump for PLL data
83	VFBC	I	Data PLL	Reference setting pin for off-set of PLL data (VCO)
84	AVDD18	I	VDD & GND	Analog power supply. 1.8V
85	VCOI	I	Data PLL	Reference voltage input port for PLL data (VCO)
86	LPF1	O	Data PLL	To connect the loop filer for PLL data 1
87	LPF2	O	Data PLL	To connect the loop filer for PLL data 2
88	RC	I	Data PLL	Gain control port for PLL data (VCO)
89	AVSS	P	VDD & GND	Analog GND
90	AVSS	P	VDD & GND	Analog GND
91	AD0	I	ADC	AD0 input port
92	AD1	I	ADC	AD1 input port
93	AD2	I	ADC	AD2 input port
94	AVDD33	P	VDD & GND	Analog power supply. 3.3V
95	AD3	I	ADC	AD3 input port
96	AD4	I	ADC	AD4 input port
97	AD5	I	ADC	AD5 input port
98	AD6	I	ADC	AD6 input port
99	AD7	I	ADC	AD7 input port
100	AD8	I	ADC	AD8 input port
101	AD9	I	ADC	AD9 input port
102	VREFH	I/O	ADC	Maximum reference voltage input port for ADC
103	VREFL	I/O	ADC	Minimum reference voltage input port for ADC
104	AVDD18	P	VDD & GND	Analog power supply. 1.8V
105	AVDD33	P	VDD & GND	Analog power supply. 3.3V
106	DA0 (TSCON)	O	DAC	Track servo output port
107	DA1 (SLED)	O	DAC	Sled servo output port
108	DA2 (FSCON)	O	DAC	Focus servo output port
109	DA3 (SLED2_TILT)	O	DAC	Sled servo/ Tilt servo control output port
110	AVSS	P	VDD & GND	Analog GND
111	FG	I	SPM	FG signal input port
112	SPWM1	O	SPM	Spindle motor PWM output-1 port
113	SPWM2	O	SPM	Spindle motor PWM output-2 port
114	GPWM0	O	General PWM	General PWM output-0 port
115	GPWM1	O	General PWM	General PWM output-1 port
116	GPWM2	O	General PWM	General PWM output-2 port
117	GPWM3	O	General PWM	General PWM output-3 port
118	GPWM4	O	General PWM	General PWM output-4 port
119	GPWM5	O	General PWM	General PWM output-5 port
120	XLCAS	O	DRAM I/F	LCAS of DRAM output port
121	XUCAS	O	DRAM I/F	UCAS of DRAM output port
122	XMOE	O	DRAM I/F	Enable output port of DRAM
123	RA11	O	DRAM I/F	Address output port-11 of DRAM
124	RA10	O	DRAM I/F	Address output port-10 of DRAM
125	DVSS	P	VDD & GND	Digital GND
126	RA9	O	DRAM I/F	Address output port-9 of DRAM

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
Q1201: CXD1885Q (DVD DSP)-6

No.	Sign	I/O	Classification	Description
127	RA8	O	DRAM I/F	Address output port-8 of DRAM
128	RA7	O	DRAM I/F	Address output port-7 of DRAM
129	RA6	O	DRAM I/F	Address output port-6 of DRAM
130	RA5	O	DRAM I/F	Address output port-5 of DRAM
131	DVDD33	P	VDD & GND	Digital power supply. 3.3V
132	RA4	O	DRAM I/F	Address output port-4 of DRAM
133	RA3	O	DRAM I/F	Address output port-3 of DRAM
134	RA2	O	DRAM I/F	Address output port-2 of DRAM
135	RA1	O	DRAM I/F	Address output port-1 of DRAM
136	DVDD18	P	VDD & GND	Digital power supply. 1.8V
137	RA0	O	DRAM I/F	Address output port-0 of DRAM
138	XRAS	O	DRAM I/F	RAS output port of DRAM
139	XMWR	O	DRAM I/F	Write enable port of DRAM
140	RD7	I/O	DRAM I/F	Data input port-7
141	RD6	I/O	DRAM I/F	Data input port-6
142	DVSS	P	VDD & GND	Digital GND
143	RD5	I/O	DRAM I/F	Data input port-5
144	RD4	I/O	DRAM I/F	Data input port-4
145	RD3	I/O	DRAM I/F	Data input port-3
146	RD2	I/O	DRAM I/F	Data input port-2
147	RD1	I/O	DRAM I/F	Data input port-1
148	RD0	I/O	DRAM I/F	Data input port-0
149	RD15	I/O	DRAM I/F	Data input port-15
150	RD14	I/O	DRAM I/F	Data input port-14
151	RD13	I/O	DRAM I/F	Data input port-13
152	RD12	I/O	DRAM I/F	Data input port-12
153	RD11	I/O	DRAM I/F	Data input port-11
154	RD10	I/O	DRAM I/F	Data input port-10
155	RD9	I/O	DRAM I/F	Data input port-9
156	DVDD18	P	VDD & GND	Digital power supply. 1.8V
157	DVDD33	P	VDD & GND	Digital power supply. 3.3V
158	RD8	I/O	DRAM I/F	Data input port-8
159	TEST0	O	Test/ Monitor	Test for I/O-0
160	TEST1	O	Test/ Monitor	Test for I/O-1
161	TEST2	O	Test/ Monitor	Test for I/O-2
162	TEST3	O	Test/ Monitor	Test for I/O-3
163	TEST4	O	Test/ Monitor	Test for I/O-4
164	TEST5	O	Test/ Monitor	Test for I/O-5
165	TEST6	O	Test/ Monitor	Test for I/O-6
166	TEST7	O	Test/ Monitor	Test for I/O-7
167	TEST8	O	Test/ Monitor	Test for I/O-8
168	TEST9	O	Test/ Monitor	Test for I/O-9
169	TEST10	O	Test/ Monitor	Test for I/O-10
170	TEST11	O	Test/ Monitor	Test for I/O-11
171	TEST12	O	Test/ Monitor	Test for I/O-12
172	TEST13	O	Test/ Monitor	Test for I/O-13
173	TEST14	O	Test/ Monitor	Test for I/O-14
174	TEST15	O	Test/ Monitor	Test for I/O-15
175	MODSEL0	I	Test/ Monitor	Test mode select-0 input port
176	MODSEL1	I	Test/ Monitor	Test mode select-1 input port
177	DVSS	P	VDD & GND	Digital GND
178	MODSEL2	I	Test/ Monitor	Test mode select-2 input port
179	GIO0	I/O	General Port	General port-0
180	GIO1	I/O	General Port	General port-1
181	GIO2	I/O	General Port	General port-2
182	GIO3	I/O	General Port	General port-3
183	DVDD33	P	VDD & GND	Digital power supply. 3.3V
184	GIO4	I/O	General Port	General port-4
185	GIO5	I/O	General Port	General port-5
186	GIO6	I/O	General Port	General port-6
187	GIO7	I/O	General Port	General port-7
188	DVDD18	I/O	VDD & GND	Digital power supply. 1.8V
189	GIO8	I/O	General Port	General port-8
190	GIO9	I/O	General Port	General port-9
191	GIO10	I/O	General Port	General port-10
192	GIO11	I/O	General Port	General port-11

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1201: CXD1885Q (DVD DSP)-7

No.	Sign	I/O	Classification	Description
193	GIO12	I/O	General Port	General port-12
194	DVSS	P	VDD & GND	Digital GND
195	GIO13	I/O	General Port	General port-13
196	GIO14	I/O	General Port	General port-14
197	GIO15	I/O	General Port	General port-15
198	GIO16	I/O	General Port	General port-16
199	GIO17	I/O	General Port	General port-17
200	GIO18	I/O	General Port	General port-18
201	GIO19	I/O	General Port	General port-19
202	TRST	I	JTAG I/F	JYAG reset input port
203	TMS	I	JTAG I/F	JYAG mode select input port
204	TDI	I	JTAG I/F	JYAG data input port
205	TCK	I	JTAG I/F	JYAG clock input port
206	TDO	O	JTAG I/F	JYAG data output port
207	VMCHG	I	MCU I/F	System select port for DSP. (L: VSTEM, H: External MCU)
208	DVDD18	P	VDD & GND	Digital power supply. 1.8V (for internal logic)

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

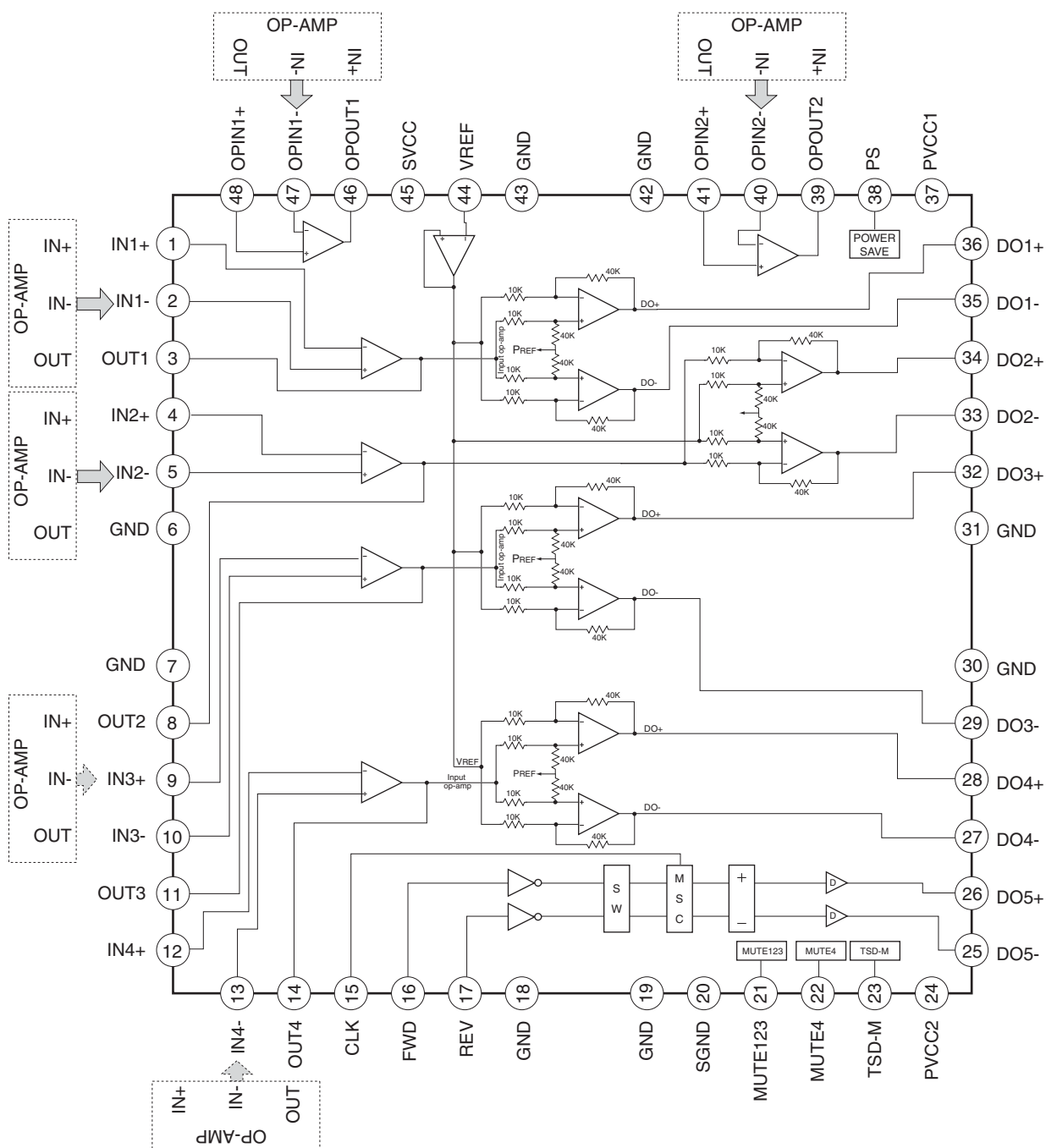## Q1101: FAN8042   5-CH MOTOR DRIVER-1

PIN ASSIGNMENT

```
        OPIN1+ 48
        OPIN1- 47
        OPOUT1 46
          SVCC 45
          VREF 44
           GND 43
           GND 42
        OPIN2+ 41
        OPIN2- 40
        OPOUT2 39
            PS 38
         PVCC1 37

IN1+  1 ┌─────────────────┐ 36  DO1+
IN1-  2 │                 │ 35  DO1-
OUT1  3 │                 │ 34  DO2+
IN2+  4 │                 │ 33  DO2-
IN2-  5 │                 │ 32  DO3+
GND   6 │    FAN8042      │ 31  GND
GND   7 │                 │ 30  GND
OUT2  8 │                 │ 29  DO3-
IN3+  9 │                 │ 28  DO4+
IN3- 10 │                 │ 27  DO4-
OUT3 11 │                 │ 26  DO5+
IN4+ 12 └─────────────────┘ 25  DO5-

       13 14 15 16 17 18 19 20 21 22 23 24
      IN4- OUT4 CTL FWD REV GND GND SGND MUTE123 MUTE4 TSD-M PVCC2
```
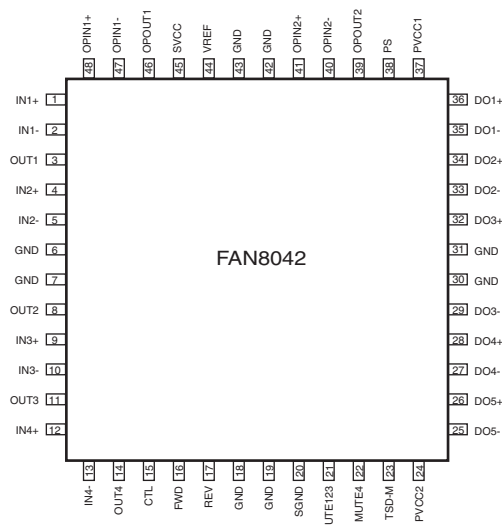
PIN DEFINITION

Pin Number	Pin Name	I/O	Pin Function description
1	IN1+	I	CH1 op-amp input (+)
2	IN1-	I	CH1 op-amp input (-)
3	OUT1	O	CH1 op-amp output
4	IN2+	I	CH2 op-amp input (+)
5	IN2-	I	CH2 op-amp input (-)
6	GND	-	Ground
7	GND	-	Ground
8	OUT2	O	CH2 op-amp output
9	IN3+	I	CH3 op-amp input (+)
10	IN3-	I	CH3 op-amp input (-)
11	OUT3	O	CH3 op-amp output
12	IN4+	I	CH4 op-amp input (+)
13	IN4-	I	CH4 op-amp input (-)
14	OUT4	O	CH4 op-amp output
15	CTL	I	CH5 motor speed control
16	FWD	I	CH5 forward input
17	REV	I	CH5 reverse input
18	GND	-	Ground
19	GND	-	Ground
20	SGND	-	Signal Ground
21	MUTE123	I	Mute for CH1,2,3
22	MUTE4	I	Mute for CH4
23	TSD-M	O	TSD monitor
24	PVCC2	-	Power supply voltage 2 (For CH4, CH5)
25	DO5-	O	CH5 driver output (-)
26	DO5+	O	CH5 driver output (+)
27	DO4-	O	CH4 driver output (-)
28	DO4+	O	CH4 driver output (+)
29	DO3-	O	CH3 driver output (-)
30	GND	-	Ground
31	GND	-	Ground
32	DO3+	O	CH3 driver output (-)
33	DO2-	O	CH2 driver output (-)
34	DO2+	O	CH2 driver output (+)
35	DO1-	O	CH1 driver output (-)
36	DO1+	O	CH1 driver output (+)
37	PVCC1	-	Power supply voltage 1 (For CH1, CH2, CH3)
38	PS	I	Power save
39	OPOUT2	O	Normal op-amp2 output
40	OPIN2-	I	Normal op-amp2 input (-)
41	OPIN2+	I	Normal op-amp2 input (+)
42	GND	-	Ground
43	GND	-	Ground
44	VREF	I	Bias voltage input
45	SVCC	-	Signal & op-amps supply voltage
46	OPOUT1	O	Normal op-amp1 output
47	OPIN1-	I	Normal op-amp1 input (-)
48	OPIN1+	I	Normal op-amp1 input (+)

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1101: FAN8042   5-CH MOTOR DRIVER-2

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1251: IC41LV16100-50T 16-MBIT DYNAMIC RAM

PIN CONFIGURATION

```
VCC    1          50   GND
I/O0   2          49   I/O15
I/O1   3          48   I/O14
I/O2   4          47   I/O13
I/O3   5          46   I/O12
VCC    6          45   GND
I/O4   7          44   I/O11
I/O5   8          43   I/O10
I/O6   9          42   I/O9
I/O7   10         41   I/O8
NC     11         40   NC

NC     15         36   NC
NC     16         35   LCAS
WE     17         34   UCAS
RAS    18         33   CE
NC     19         32   A9
NC     20         31   A8
A0     21         30   A7
A1     22         29   A6
A2     23         28   A5
A3     24         27   A4
VCC    25         26   GND
```

PIN DESCRIPTION

A0-A9	Address input
I/O0-15	Data inputs/outputs
WE	Write enable
OE	Output enable
RAS	Row address strobe
UCAS	Upper column address strobe
LCAS	Lower column address strobe
VCC	Power
GND	Ground
NC	No connection

FUNCTIONAL BLOCK DIAGRAM

TRUTH TABLE

Function		$\overline{RAS}$	$\overline{LCAS}$	$\overline{UCAS}$	$\overline{WE}$	$\overline{OE}$	Address tR/tc	I/O
Standby		H	H	H	X	X	X	High-Z
Read: Word		L	L	L	H	L	ROW/COL	Dout
Read: Lower Byte		L	L	H	H	L	ROW/COL	Lower Byte. Dout / Upper Byte, High-Z
Read: Upper Byte		L	H	L	H	L	ROW/COL	Lower Byte, High-Z / Upper Byte. Dout
Write: Word (Early Write)		L	L	L	L	X	ROW/COL	Din
Write: Lower Byte (Early Write)		L	L	H	L	X	ROW/COL	Lower Byte. Din / Upper Byte, High-Z
Write: Upper Byte (Early Write)		L	H	L	L	X	ROW/COL	Lower Byte, High-Z / Upper Byte. Din
Read Write		L	L	L	H–L	H–L	ROW/COL	Dout, Din
EDO Page-Mode Read	1st Cycle	L	H–L	H–L	H	L	ROW/COL	Dout
	2nd Cycle	L	H–L	H–L	H	L	NA/COL	Dout
	Any Cycle	L	L–H	L–H	H	L	NA/NA	Dout
EDO Page-Mode Read	1st Cycle	L	H–L	H–L	L	X	ROW/COL	Din
	2nd Cycle	L	H–L	H–L	L	X	NA/COL	Din
EDO Page-Mode Read-Write	1st Cycle	L	H–L	H–L	H–L	L	ROW/COL	Dout, Din
	2nd Cycle	L	H–L	H–L	H–L	L–H	NA/COL	Dout, Din
Hidden Refresh	1st Cycle	L–H–L	L	L	–H	L	ROW/COL	Dout
	2nd Cycle	L–H–L	L	L	L	X	ROW/COL	Dout
RAS-Only Refresh		L	H	H	X	X	ROW/NA	High-Z
CBR Refresh		H–L	L	L	X	X	X	High-Z

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2303 : IC42S16400-7T SYNCHRONOUS DYNAMIC RAM

The IC42S16400 are high-speed 67, 108, 864-bit synchronous dynamic ramdam-access memories, organized as 2,097, 152 x 8 x 4 and 1,48, 576 x 16 x 4 (word x bit x bank), respectively.
The synchronous DRAMs achieved high-speed data transfer using the pipeline architecture and clock frequency up to 133MHz for -7.
All input and outputs are synchronized with the positive edge of the clock. The synchronous DRAMs are compatible with Low Voltage TTL.

PIN CONFIGURATIONS

VDD	1	54	VSS
DQ0	2	53	DQ15
VDDQ	3	52	VSSQ
DQ1	4	51	DQ14
DQ2	5	50	DQ13
VSSQ	6	49	VDDQ
DQ3	7	48	DQ12
DQ4	8	47	DQ11
VDDQ	9	46	VSSQ
DQ5	10	45	DQ10
DQ6	11	44	DQ9
VSSQ	12	43	VDDQ
DQ7	13	42	DQ8
VDD	14	41	VSS
LDQM	15	40	NC
$\overline{WE}$	16	39	UDQM
$\overline{CAS}$	17	38	CLK
$\overline{RAS}$	18	37	CKE
$\overline{CS}$	19	36	NC
BA0	20	35	A11
BA1	21	34	A9
A10	22	33	A8
A0	23	32	A7
A1	24	31	A6
A2	25	30	A5
A3	26	29	A4
VDD	27	28	VSS

PIN DESCRIPTIONS

CLK	Master Clock		DQM	DQ Mask Enable
CKE	Clock Enable		A0 - 11	Address Input
$\overline{CS}$	Chip Select		BA0, 1	Bank Address
$\overline{RAS}$	Row Address Strobe		VDD	Power Supply
$\overline{CAS}$	Column Address Strobe		VDDQ	Power Supply for DQ
$\overline{WE}$	Write Enable		VSS	Ground
DQ0 - DQ15	Data I/O		VSSQ	Ground for DQ

BLOCK DIAGRAM
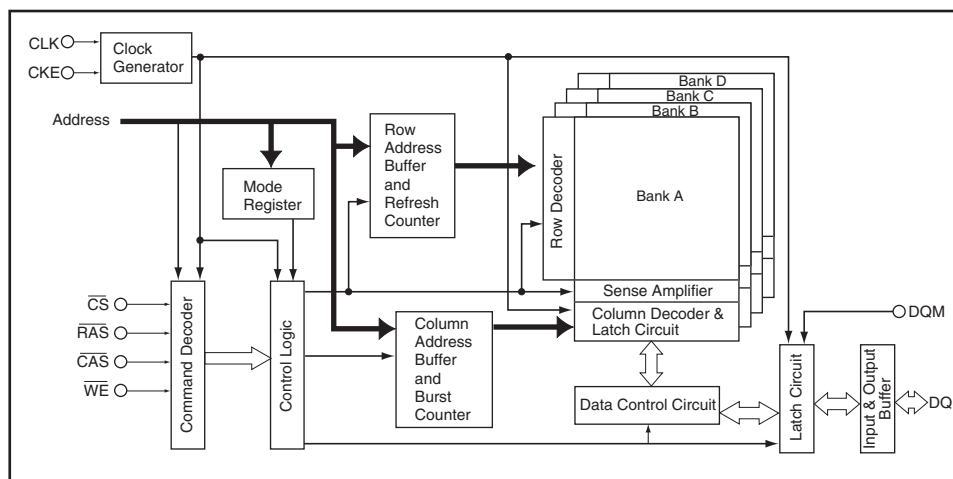
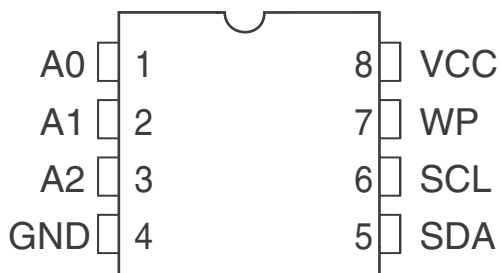# IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2003 : IS24C08-3Z EEPROM
(8K-Bit 2-Wire Serial CMOS EEPROM)

PIN CONFIGURATION

A0	1		8	VCC
A1	2		7	WP
A2	3		6	SCL
GND	4		5	SDA

PIN DESCRIPTIONS

A0-A2	Address Inputs
SDA	Serial Address/Data I/O
SCL	Serial Clock Input
WP	Write Protect Input
Vcc	Power Supply
GND	Ground

SCL

This input clock pin is used to synchronize the data transfer to and from the device.

SDA

The SDA is a Bi-directional pin used to transfer addresses and data into and out of the device. The SDA pin is an open drain output and can be wire-Ored with other open drain or open collector outputs. The SDA bus requires a pullup resistor to Vcc.

A0, A1, A2

The A0, A1 and A2 are the device address inputs.
The IS24C08 only use A2 input for hardwire addressing and a total of two devices may be addressed on a single bus system. The A0 and A1 pins are not used by IS24C08. They may be left floating or tied to either GND or Vcc.

WP

WP is the Write Protect pin.
On the and 24C08, if the WP pin is tied to Vcc the entire array becomes Write Protected (Read only). On the 24C16,
if the WP pin is tied to Vcc the upper half array becomes Write Protected (Read only). When WP is tied to GND or left floating normal read/write operations are allowed to the device.
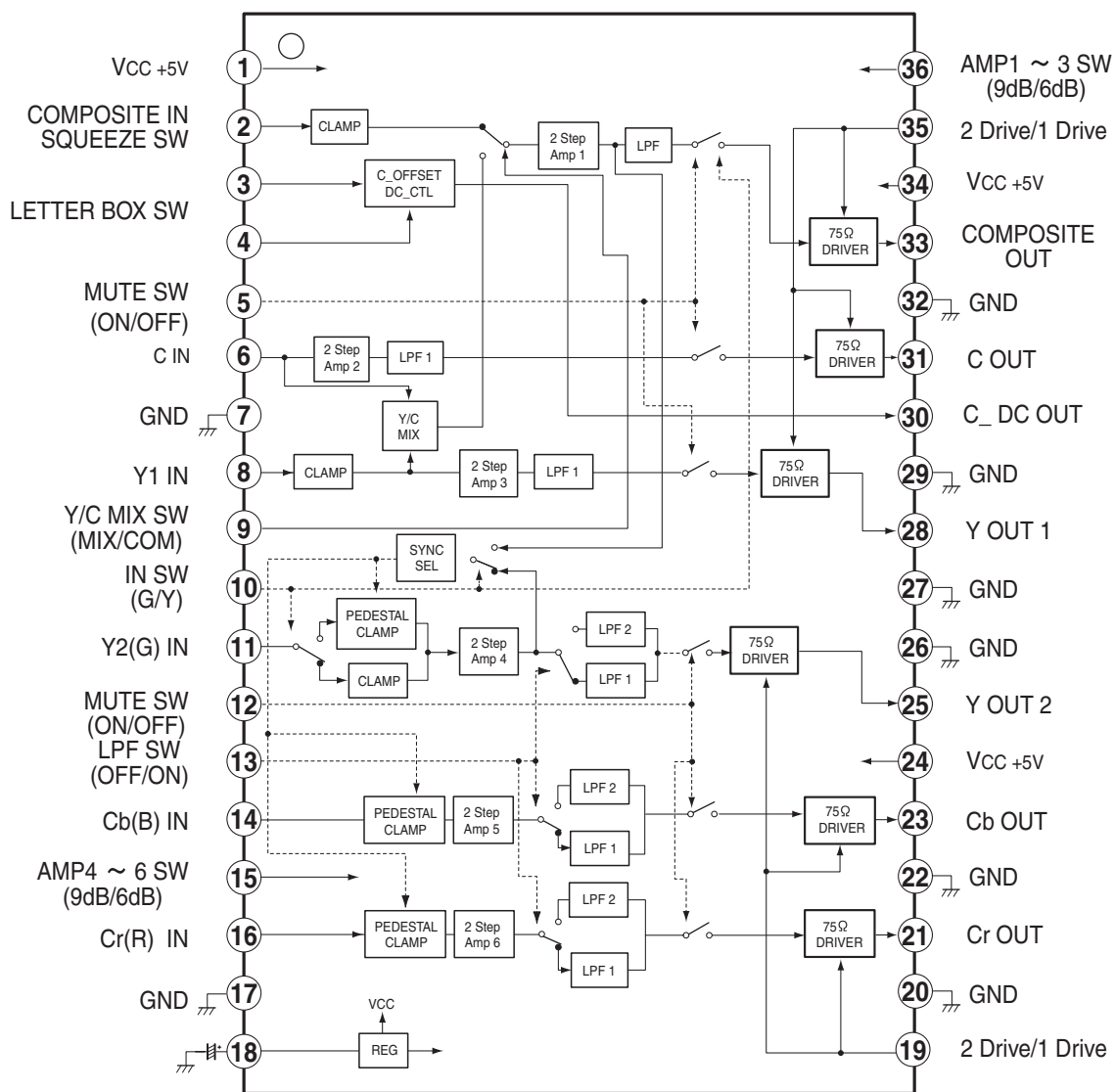
FUNCTIONAL BLOCK DIAGRAM
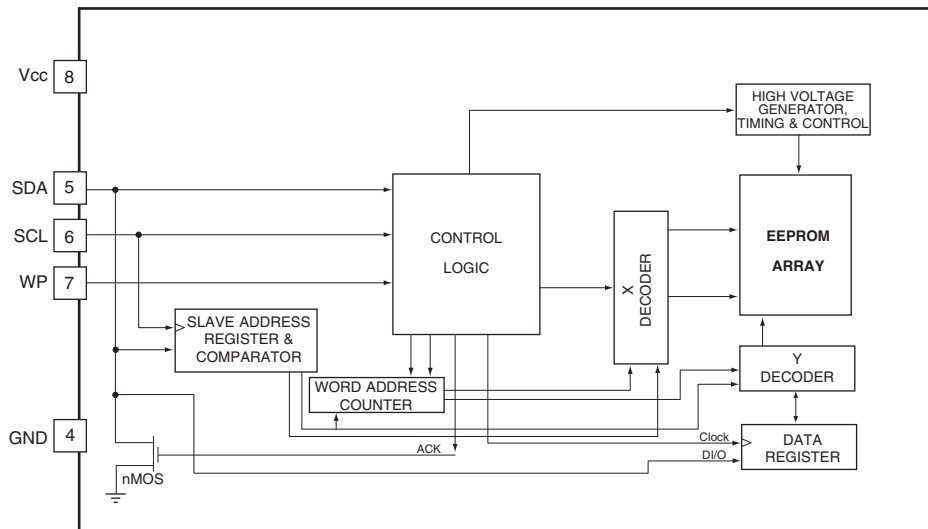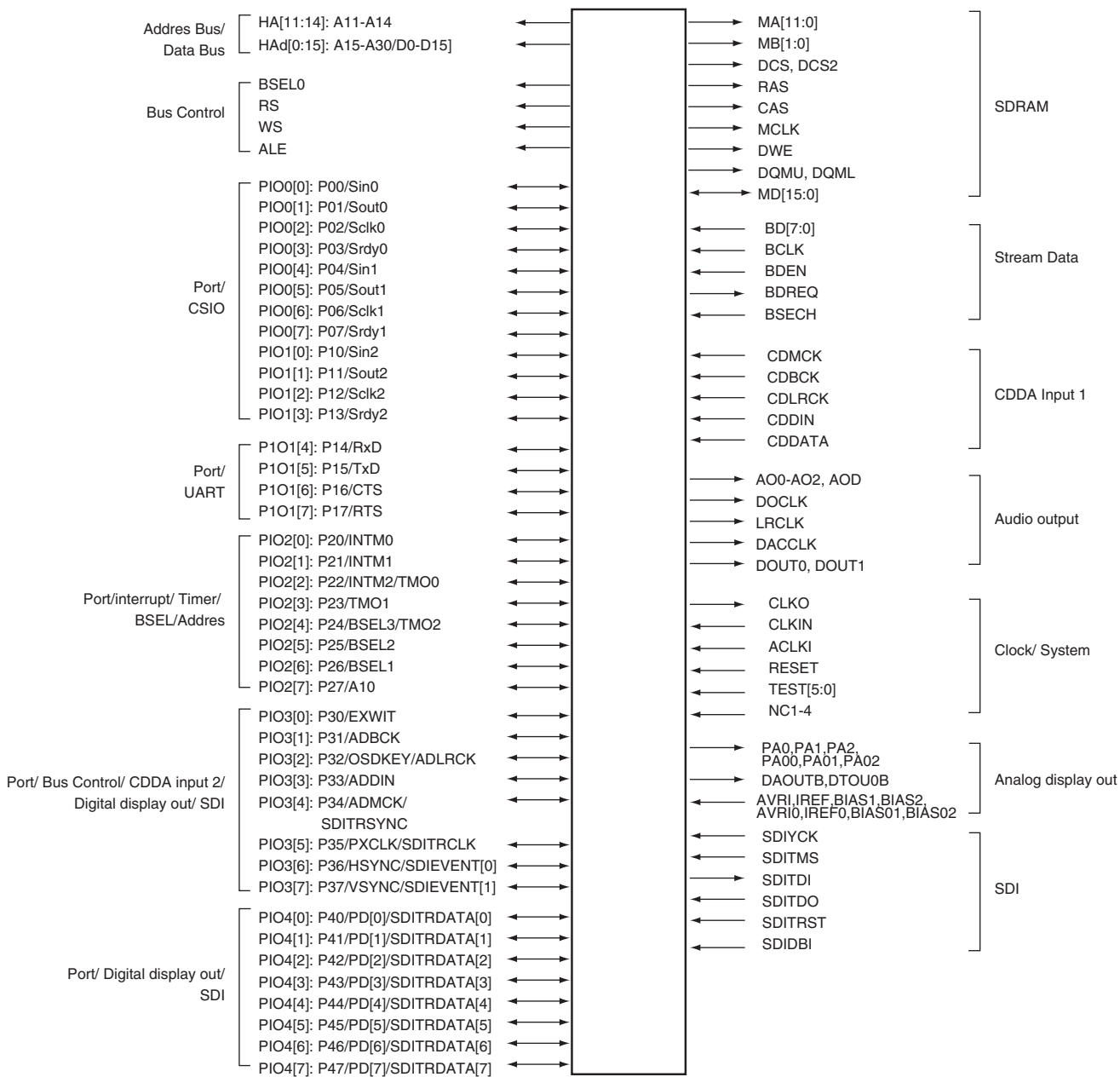
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q201 : LA73054   6-CHANNEL VIDEO DRIVER

Block Diagram

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2001 : M65783AFP (BACKEND DECODER)-1

Group	Left terminals		Right terminals	Group
Addres Bus/ Data Bus	HA[11:14]: A11-A14 HAd[0:15]: A15-A30/D0-D15		MA[11:0] MB[1:0] DCS, DCS2 RAS CAS MCLK DWE DQMU, DQML MD[15:0]	SDRAM
Bus Control	BSEL0 RS WS ALE		BD[7:0] BCLK BDEN BDREQ BSECH	Stream Data
Port/ CSIO	PIO0[0]: P00/Sin0 PIO0[1]: P01/Sout0 PIO0[2]: P02/Sclk0 PIO0[3]: P03/Srdy0 PIO0[4]: P04/Sin1 PIO0[5]: P05/Sout1 PIO0[6]: P06/Sclk1 PIO0[7]: P07/Srdy1 PIO1[0]: P10/Sin2 PIO1[1]: P11/Sout2 PIO1[2]: P12/Sclk2 PIO1[3]: P13/Srdy2		CDMCK CDBCK CDLRCK CDDIN CDDATA	CDDA Input 1
Port/ UART	P1O1[4]: P14/RxD P1O1[5]: P15/TxD P1O1[6]: P16/CTS P1O1[7]: P17/RTS		AO0-AO2, AOD DOCLK LRCLK DACCLK DOUT0, DOUT1	Audio output
Port/interrupt/ Timer/ BSEL/Addres	PIO2[0]: P20/INTM0 PIO2[1]: P21/INTM1 PIO2[2]: P22/INTM2/TMO0 PIO2[3]: P23/TMO1 PIO2[4]: P24/BSEL3/TMO2 PIO2[5]: P25/BSEL2 PIO2[6]: P26/BSEL1 PIO2[7]: P27/A10		CLKO CLKIN ACLKI RESET TEST[5:0] NC1-4	Clock/ System
Port/ Bus Control/ CDDA input 2/ Digital display out/ SDI	PIO3[0]: P30/EXWIT PIO3[1]: P31/ADBCK PIO3[2]: P32/OSDKEY/ADLRCK PIO3[3]: P33/ADDIN PIO3[4]: P34/ADMCK/ SDITRSYNC PIO3[5]: P35/PXCLK/SDITRCLK PIO3[6]: P36/HSYNC/SDIEVENT[0] PIO3[7]: P37/VSYNC/SDIEVENT[1]		PA0,PA1,PA2, PA00,PA01,PA02 DAOUTB,DTOU0B AVRI,IREF,BIAS1,BIAS2, AVRI0,IREF0,BIAS01,BIAS02	Analog display out
Port/ Digital display out/ SDI	PIO4[0]: P40/PD[0]/SDITRDATA[0] PIO4[1]: P41/PD[1]/SDITRDATA[1] PIO4[2]: P42/PD[2]/SDITRDATA[2] PIO4[3]: P43/PD[3]/SDITRDATA[3] PIO4[4]: P44/PD[4]/SDITRDATA[4] PIO4[5]: P45/PD[5]/SDITRDATA[5] PIO4[6]: P46/PD[6]/SDITRDATA[6] PIO4[7]: P47/PD[7]/SDITRDATA[7]		SDIYCK SDITMS SDITDI SDITDO SDITRST SDIDBI	SDI

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
PORT ASSIGMENT-1

Class	Port name	Function 1			Function 2		Function 3	
		I/O	Description		I/O	Descrition	I/O	Descrition
CPU outside Bus I/F	HA[11]	O	CPU Address					
	HA[12]	O	CPU Address					
	HA[13]	O	CPU Address					
	HA[14]	O	CPU Address					
	HA[0]	I/O	CPU Address/ Data					
	HAD[0]	I/O	CPU Address/ Data					
	HAD[1]	I/O	CPU Address/ Data					
	HAD[2]	I/O	CPU Address/ Data					
	HAD[3]	I/O	CPU Address/ Data					
	HAD[4]	I/O	CPU Address/ Data					
	HAD[5]	I/O	CPU Address/ Data					
	HAD[6]	I/O	CPU Address/ Data					
	HAD[7]	I/O	CPU Address/ Data					
	HAD[8]	I/O	CPU Address/ Data					
	HAD[9]	I/O	CPU Address/ Data					
	HAD[10]	I/O	CPU Address/ Data					
	HAD[11]	I/O	CPU Address/ Data					
	HAD[12]	I/O	CPU Address/ Data					
	HAD[13]	I/O	CPU Address/ Data					
	HAD[14]	I/O	CPU Address/ Data					
	HAD[15]	I/O	CPU Address/ Data					
	BSEL0	O	Block select 0					
	RS	O	Read Strobe					
	WS	O	Wright Strobe					
	ALE	O	Address Latch Enable					
	PI03[0]	I/O	Port 30		I	EXWIT		
CPU Circumference function	PI00[0]	I/O	Port 00		I	Sin0		
	PI00[1]	I/O	Port 01		O	Sout0		
	PI00[2]	I/O	Port 02		I/O	Sclk0		
	PI00[3]	I/O	Port 03		I/O	Srdy0		
	PI00[4]	I/O	Port 04		I	Sin1		
	PI00[5]	I/O	Port 05		O	Sout1		
	PI00[6]	I/O	Port 06		I/O	Sclk1		
	PI00[7]	I/O	Port 07		I/O	Srdy1		
	PI01[0]	I/O	Port 10		I	Sin2		
	PI01[1]	I/O	Port 11		O	Sout2		
	PI01[2]	I/O	Port 12		I/O	Sclk2		
	PI01[3]	I/O	Port 13		I/O	Srdy2		
	PI01[4]	I/O	Port 14		I	RxD		
	PI01[5]	I/O	Port 15		O	TxD		
	PI01[6]	I/O	Port 16		I	CTS		
	PI01[7]	I/O	Port 17		O	RTS		
	PI02[0]	I/O	Port 20		I	INTM0		
	PI02[1]	I/O	Port 21		I	INTM1		
	PI02[2]	I/O	Port 22		I	INTM2	O	TM00
	PI02[3]	I/O	Port 23				O	TM01
	PI02[4]	I/O	Port 24		O	BSEL3	O	TM02
	PI02[5]	I/O	Port 25		O	BSEL2		
	PI02[6]	I/O	Port 26		O	BSEL1		
	PI02[7]	I/O	Port 27		O	HA10		

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
PORT ASSIGMENT-2

Class	Port name	Function 1		Function 2		Function 3	
		I/O	Description	I/O	Description	I/O	Descrition
	PI02[5]	I/O	Port 25	O	BSEL2		
	PI02[6]	I/O	Port 26	O	BSEL1		
	PI02[7]	I/O	Port 27	O	HA10		
CPU Circumference function/ Digital Video output/ CDDA input	PI03[1]	I/O	Port 31			I	ADBCK
	PI03[2]	I/O	Port 32	O	OSDKEY	I	ADLRCK
	PI03[3]	I/O	Port 33			I	ADDIN
	PI03[4]	I/O	Port 34			I	ADMCK
	PI03[5]	I/O	Port 35	O	PXCLK		
	PI03[6]	I/O	Port 36	O	HSYNC		
	PI03[7]	I/O	Port 37				
	PI04[0]	I/O	Port 40	O	VSYNC		
	PI04[1]	I/O	Port 41				
	PI04[2]	I/O	Port 42	O	PD[0]		
	PI04[3]	I/O	Port 43	O	PD[1]		
	PI04[4]	I/O	Port 44	O	PD[2]		
	PI04[5]	I/O	Port 45	O	PD[3]		
	PI04[6]	I/O	Port 46	O	PD[4]		
	PI04[7]	I/O	Port 47	O	PD[5]		
				O	PD[6]		
				O	PD[7]		
CPU Debug	SDITCK	I	SDI Clock input pin				
	SDITMS	I	SDI Access mode input pin				
	SDITDI	I	SDI Data input pin				
	SDITDO	O	SDI Data output pin				
	SDITRST	I	SDI Reset input pin				
	SDIDBI	I	SDI Interrupt Debugging				
CPU external Bus I/F	DAOUTB	AO	DAC Current output pin				
	PA0	AO	DAC signal output pin				
	PA1	AO	DAC signal output pin				
	PA2	AO	DAC signal output pin				
	BIAS1	AI	DAC Bias voltage (1)				
	BIAS2	AI	DAC Bias voltage (2)				
	AVRI	AI	DAC Reference voltage input pin				
	IREF	AI	DAC Reference voltage input pin				
Video DAC	DAOUT0B	AO	DAC Current output pin				
	PA00	AO	DAC signal output pin				
	PA01	AO	DAC signal output pin				
	PA02	AO	NC				
	BIAS01	AI	DAC Bias voltage (1)				
	BIAS02	AI	DAC Bias voltage (2)				
	AVRI0	AI	DAC Reference voltage input pin				
	IREF0	AI	DAC Reference voltage input pin				

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
PORT ASSIGMENT-3

Class	Port name	Function 1		Function 2		Function 3	
		I/O	Description	I/O	Description	I/O	Descrition
SDRAM I/F	DCS	O	SDRAM Chip select output pin				
	DCS2	O	SDRAM Chip select output pin				
	MCLK	O	SDRAM Clock output				
	RAS	O	SDARAM RAS output				
	CAS	O	SDARAM CAS output				
	DQML	O	SDARAM Data master				
	DQMU	O	SDARAM Data master				
	DWE	O	SDARAM Wright enable output				
	MBA[1]	O	SDRAM Bank Address				
	MD[0]	I/O	SDRAM Data input/ output				
	MD[1]	I/O	SDRAM Data input/ output				
	MD[2]	I/O	SDRAM Data input/ output				
	MD[3]	I/O	SDRAM Data input/ output				
	MD[4]	I/O	SDRAM Data input/ output				
	MD[5]	I/O	SDRAM Data input/ output				
	MD[6]	I/O	SDRAM Data input/ output				
	MD[7]	I/O	SDRAM Data input/ output				
	MD[8]	I/O	SDRAM Data input/ output				
	MD[9]	I/O	SDRAM Data input/ output				
	MD[10]	I/O	SDRAM Data input/ output				
	MD[11]	I/O	SDRAM Data input/ output				
	MD[12]	I/O	SDRAM Data input/ output				
	MD[13]	I/O	SDRAM Data input/ output				
	MD[14]	I/O	SDRAM Data input/ output				
	MD[15]	I/O	SDRAM Data input/ output				
Stream I/F	BDREQ	O	Stream Request output pin				
	BDEN	I	Stream Enable input pin				
	BSECH	I	Sector display of head				
	BCLK	I	Stream data input pin				
	BD[0]	I	Stream data input pin				
	BD[1]	I	Stream data input pin				
	BD[2]	I	Stream data input pin				
	BD[3]	I	Stream data input pin				
	BD[4]	I	Stream data input pin				
	BD[5]	I	Stream data input pin				
	BD[6]	I	Stream data input pin				
	BD[7]	I	Stream data input pin				
Audio I/F	CDNCK	I	CDDA Master clock input pin				
	CDBCK	I	CDDA Bit clock input pin				
	CDLRCK	I	CDDA L/R clock input pin				
	CDDIN	I	CDDA PCM data input pin				
	CDDATA	I	CDDA Digital data input pin				
	DACCLK	O	Clock output pin for DAC				
	DOCLK	O	Bit clock output pin for DAC				
	LRCLK	O	L/R clock output pin for DAC				
	AO0	O	Audio PCM output pin				
	AO1	O	Audio PCM output pin				
	AO2	O	Audio PCM output pin				
	AOD	O	Audio PCM output pin				
	DOUT0	O	Audio digital output pin				
	DOUT1	O	Audio digital output pin				

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION
PORT ASSIGMENT-4

Class	Port name	I/O	Function 1 Description		I/O	Function 2 Descrition	I/O	Function 3 Descrition
System	ACLKI	I	Audio clock input pin					
	CLKIN	I	System clock input pin					
	CLK0	O	Clock output pin					
	RESET	I	Reset input pin					
	TEST[0]	I	Test mode input pin					
	TEST[1]	I	Test mode input pin					
	TEST[2]	I	Test mode input pin					
	TEST[3]	I	Test mode input pin					
	TEST[4]	I	Test mode input pin					
	TEST[5]	I	Test mode input pin					
	NC1	I	Test mode input pin					
	NC2	I	Test mode input pin					
	NC3	I	Test mode input pin					
	NC4	I	Test mode input pin					

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2901, Q2904 : MPC29M33T REGURATOR IC 3.3 V output
Q2902, Q2903 : MPC2918T REGURATOR IC 1.8 V output

BLOCK DIAGRAM

1 : Input
2 : GND
3 : Output
4 : GND (Fin)
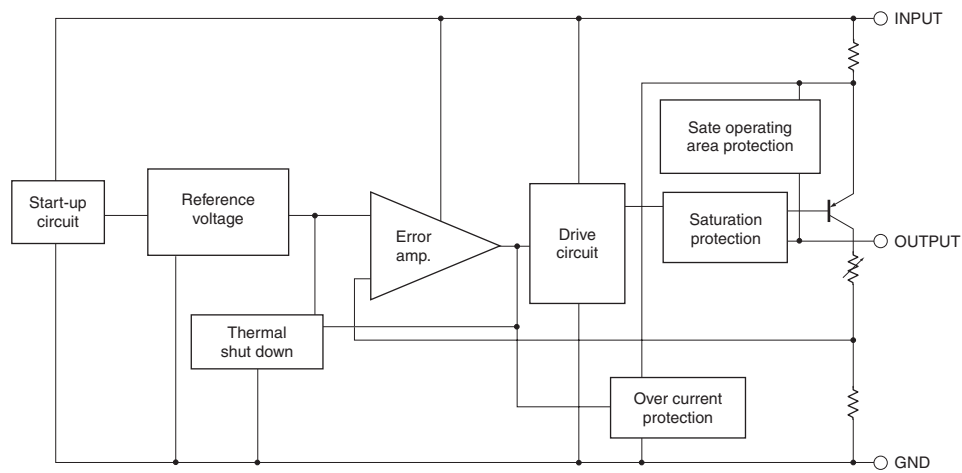
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q1002: NJM2115V (2-ch Ope. amp.)
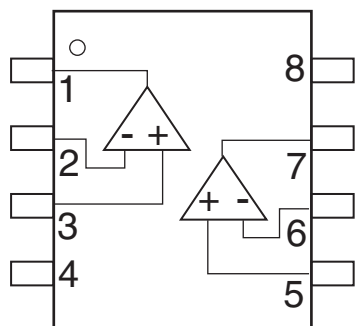
(Top view)

Pin description

1. A OUTPUT
2. A -INPUT
3. A +INPUT
4. V-
5. B +INPUT
6. B -INPUT
7. B OUTPUT
8. V+
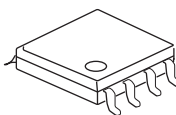
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q431: NJM2370 (Regulated power supply)
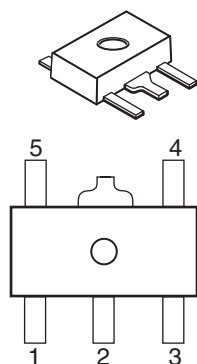
PIN DESCRIPTION
1. Control
2. GND
3. Noise Bypass
4. Vout
5. Vin
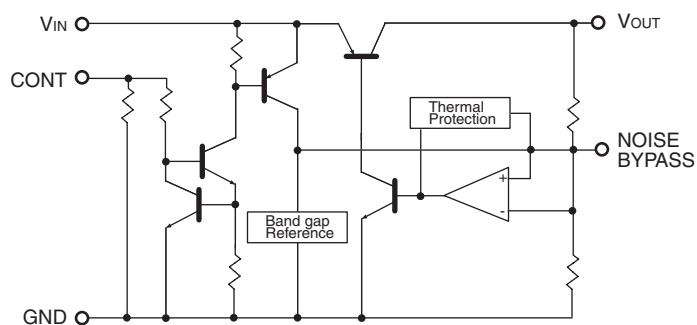
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2401: NJM2373AF (Adjustable High Precision Shunt Regulator)

Pin Configuration

NC [1]   [5] REFERENCE

ANODE [2]

NC [3]   [4] CATHODE

Block Diagram

Cathode

Reference

V_{REF}

Anode
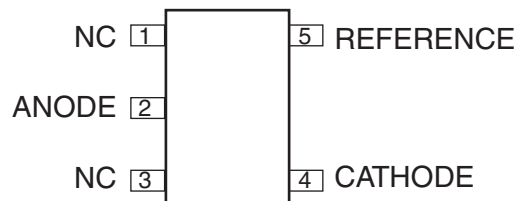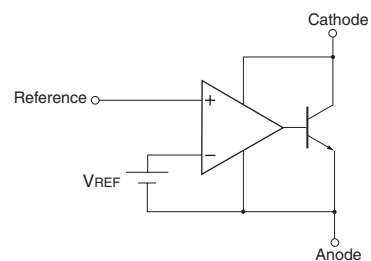
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q401: PCM1742KE   DIGITAL-TO-ANALOG CONVERTER

24-Bit, 192kHz Sampling
Enhanced Multilevel, Delta-Sigma, Audio

BLOCK DIAGRAM

PIN CONFIGURATION

TOP VIEW

```
        ┌──────────────┐
BCK   1 │ ○            │ 16  SCK
DATA  2 │              │ 15  ML
LRCK  3 │              │ 14  MC
DGND  4 │              │ 13  MD
V_DD  5 │   PCM1742    │ 12  ZEROL/NA
V_CC  6 │              │ 11  ZEROR/ZEROA
V_OUT L 7 │            │ 10  V_COM
V_OUT R 8 │            │ 9   AGND
        └──────────────┘
              SSOP
```
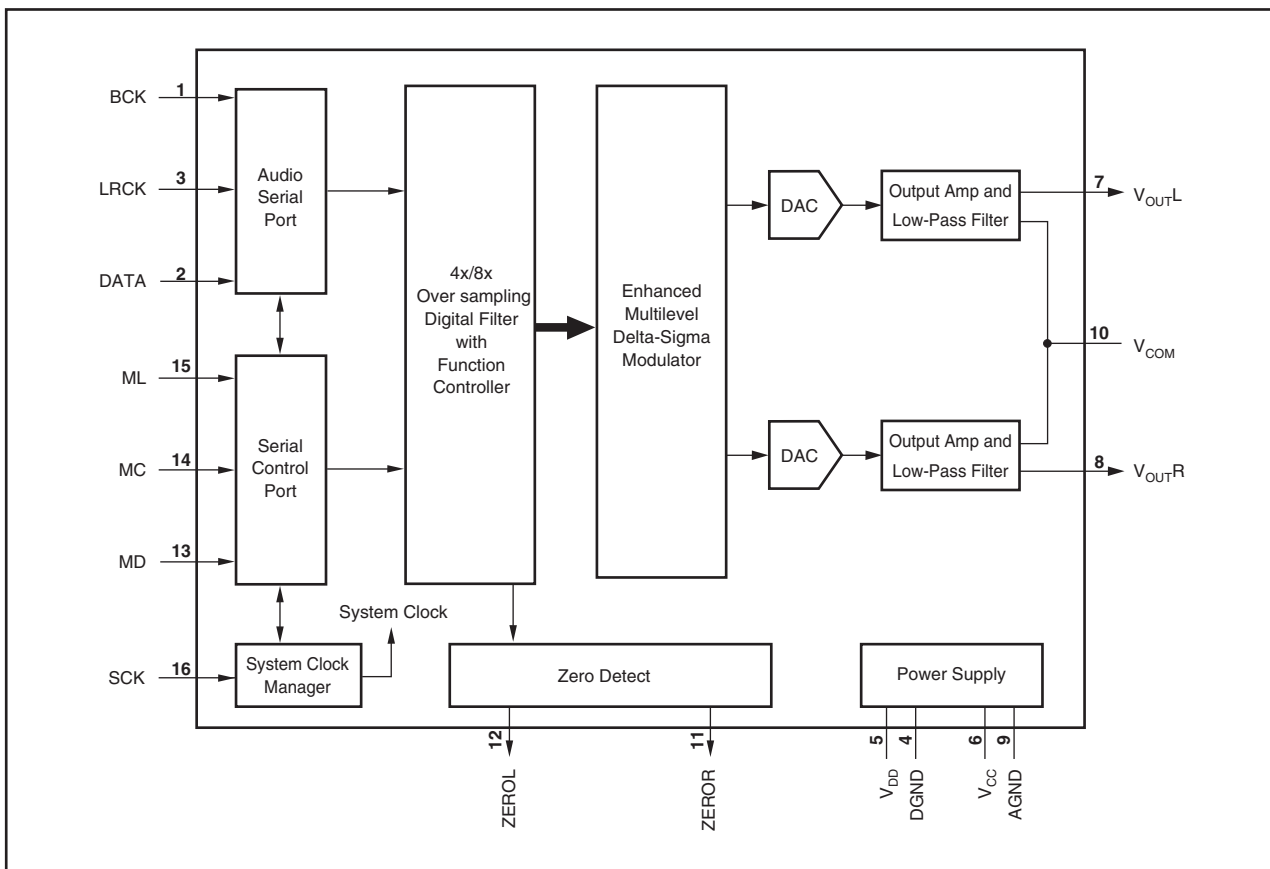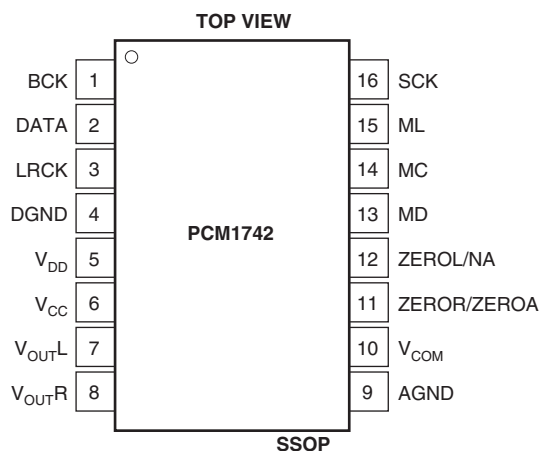
PIN ASSIGNMENTS

PIN	NAME	TYPE	FUNCTION
1	BCK	IN	Audio Data Bit Clock Input.[1]
2	DATA	IN	Audio Data Digital Input.[1]
3	LRCK	IN	L-Channel and R-Channel Audio Data Latch Enable Input.[1]
4	DGND	-	Digital Ground
5	V_{DD}	-	Digital Power Supply, +3.3V
6	V_{CC}	-	Analog Power Supply, +5V
7	$V_{OUT}L$	OUT	Analog Output for L-Channel.
8	$V_{OUT}R$	OUT	Analog Output for R-Channel.
9	AGND	-	Analog Ground
10	V_{COM}	-	Common Voltage Decoupling.
11	ZEROR/ ZEROA	OUT	Zero Flag Output for R-Channel/Zero Flag Output for L/R-Channel.
12	ZEROL/NA	OUT	Zero Flag Output for L-Channel/No Assign.
13	MD	IN	Mode Control Data Input.[2]
14	MC	IN	Mode Control Clock Input.[2]
15	ML	IN	Mode Control Latch Input.[2]
16	SCK	IN	System Clock Input.

NOTES: (1) Schmitt-trigger input, 5V tolerant. (2) Schmitt-trigger with internal pull-down, 5V tolerant.

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2002: S-80127CNMC-JKM VOLTAGE DETECTOR (12.7V N-ch open drain, Active L: out)
Q702:   S-80130CLMC-JKM VOLTAGE DETECTOR (13.0V CMOS, Active L: out)

PIN CONFIGURATION

Top view
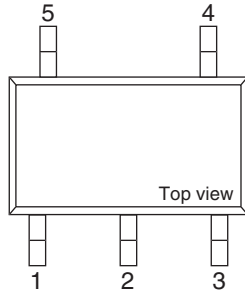
PIN DESCRIPTION

No.	Symbol	Description
1	DS	ON/OFF switch for delay time
2	VSS	GND
3	NC[*1]	Non-connection
4	OUT	Voltage detection output pin
5	VDD	Voltage input pin

*1. NC pin is electrically open.

BLOCK DIAGRAM
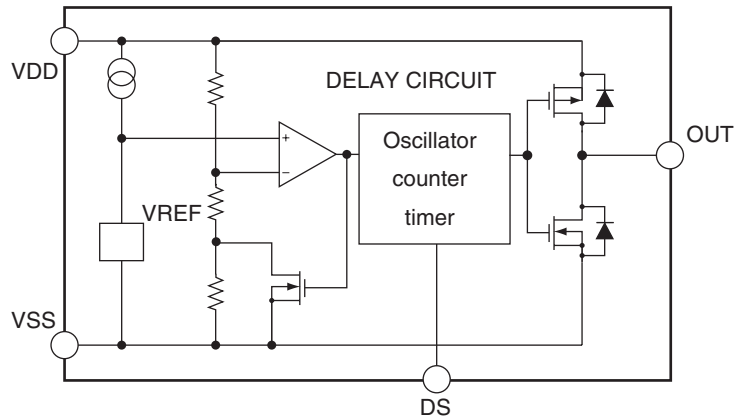
IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2502: TC7SZ125FU (BUS BUFFER 3-STAGE OUTPUT)

PIN ASSIGNMENT

$\overline{G}$ 1 — VCC 5

IN A 2

GND 3 — OUT Y 4

(Top view)
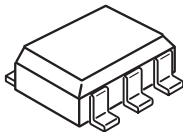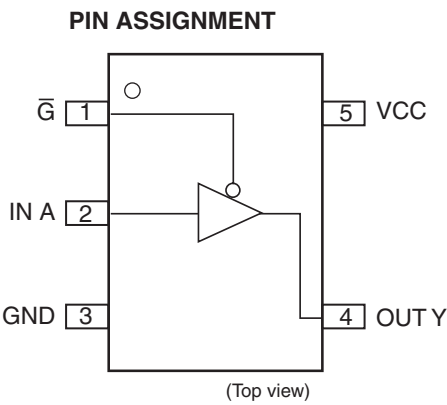
Truth table

INPUT		OUTPUT
A	G	Y
X	H	Z
L	L	L
H	L	H

X: Don't care

Z: High impedance

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q704, Q705: TA7291S (MOTOR DRIVER)

Block diagram
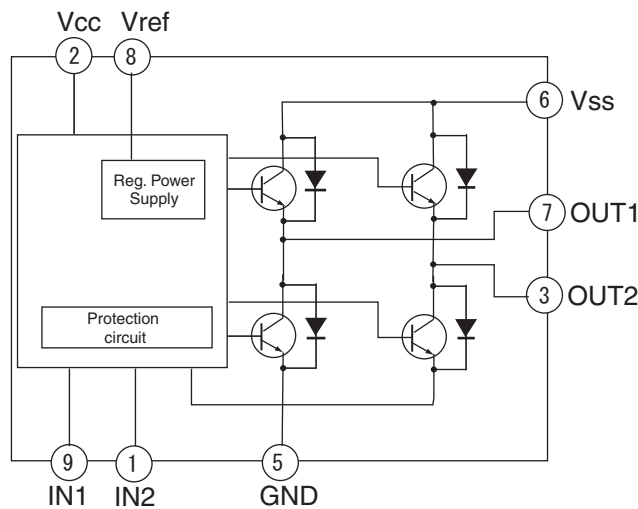
Description

INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

CW : Clockwise direction
CCW : Counter clockwise direction

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2501: TC74VHCT125AF QUAD BUS BUFFER

Pin Assignment

1G 1	14 VCC
1A 2	13 4G
1Y 3	12 4A
2G 4	11 4Y
2A 5	10 3G
2Y 6	9 3A
GND 7	8 3Y
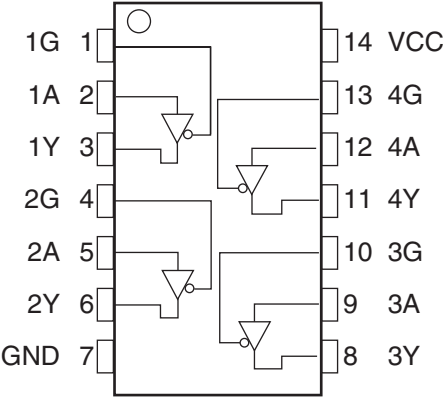
Truth Table

INPUTS		OUTPUTS
$\overline{G}$	A	Y
H	X	Z
L	L	L
L	H	H

X: Don't Care

Z: High Impedance

IC BLOCK DIAGRAM/ TERMINAL DESCRIPTION

Q2301: TC74VCX162373FT 16-BIT D-TYPE LATCH

PIN ASSIGNMENT

Left	Pin		Pin	Right
1$\overline{\text{OE}}$	1		48	1LE
1Q1	2		47	1D1
1Q2	3		46	1D2
GND	4		45	GND
1Q3	5		44	1D3
1Q4	6		43	1D4
VCC	7		42	VCC
1Q5	8		41	1D5
1Q6	9		40	1D6
GND	10		39	GND
1Q7	11		38	1D7
1Q8	12		37	1D8
2Q1	13		36	2D1
2Q2	14		35	2D2
GND	15		34	GND
2Q3	16		33	2D3
2Q4	17		32	2D4
VCC	18		31	VCC
2Q5	19		30	2D5
2Q6	20		29	2D6
GND	21		28	GND
2Q7	22		27	2D7
2Q8	23		26	2D8
2$\overline{\text{OE}}$	24		25	2LE

SYSTEM DIAGRAM
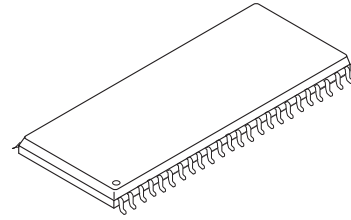
Truth Table

Inputs			Outputs
1$\overline{\text{OE}}$	1LE	1D1-1D8	1Q1-1Q8
H	X	X	Z
L	L	X	Qn
L	H	L	L
L	H	H	H

Inputs			Outputs
2$\overline{\text{OE}}$	2LE	2D1-2D8	2Q1-2Q8
H	X	X	Z
L	L	X	Qn
L	H	L	L
L	H	H	H

X: Don't care

Z: High impedance

Qn: Q output are latched at the time
when the LE input is taken to a low logic level.
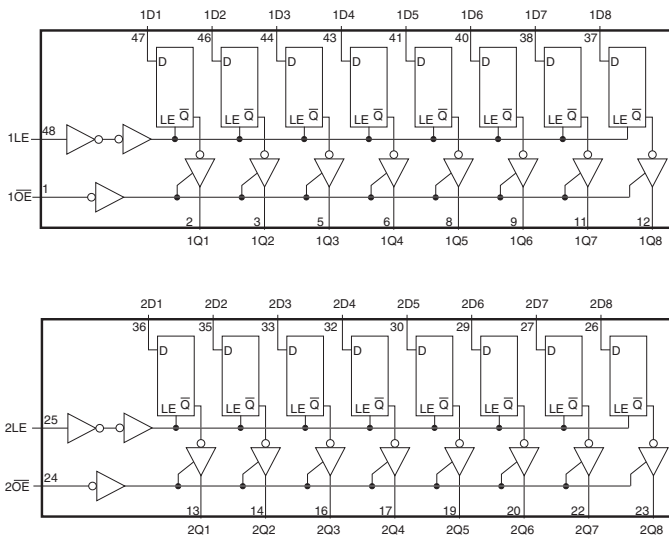
FL TUBE VIEW

Q802: HNV-12SM34

GRID ASSIGNMENT
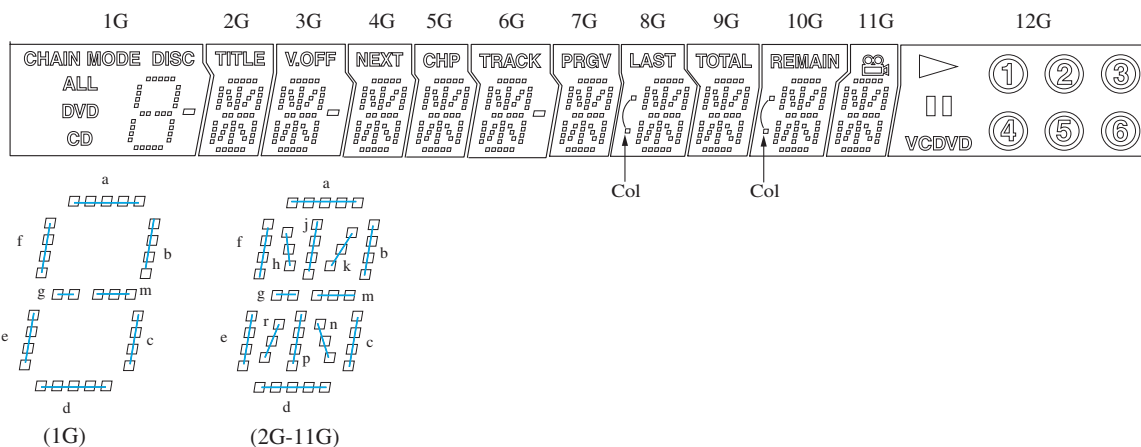
PIN CONNECTION

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17-39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
CONNECTION	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	NP	NP	P2	P2

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	a	a	a	a	a	a	a	a	a	a	a	1
P2	CHAN MODE	j	j	j	j	j	j	j	j	j	j	2
P3	DISC	h	h	h	h	h	h	h	h	h	h	3
P4	ALL	k	k	k	k	k	k	k	k	k	k	4
P5	b	b	b	b	b	b	b	b	b	b	b	5
P6	f	f	f	f	f	f	f	f	f	f	f	6
P7	g	g	g	g	g	g	g	g	g	g	g	◯ (1)
P8	m	m	m	m	m	m	m	m	m	m	m	◯ (2)
P9	c	c	c	c	c	c	c	c	c	c	c	◯ (3)
P10	e	e	e	e	e	e	e	e	e	e	e	◯ (4)
P11	DVD	n	n	n	n	n	n	n	n	n	n	◯ (5)
P12	CD	r	r	r	r	r	r	r	r	r	r	◯ (6)
P13		p	p	p	p	p	p	p	p	p	p	V
P14	d	d	d	d	d	d	d	d	d	d	d	C
P15		TITLE	V.OFF	NEXT	CHP	TRACK	PRGV	LAST	TOTAL	REMAIN		D
P16	▭					▭		Col		Col	Col	VD
P17			▭								▦	
P18												▷
P19												‖

MICROPROCESSOR TERMINAL DESCRIPTION-1

Q701: uPD780056

PIN LAYOUT

uPD780056

Top pins (80–61):

Pin	Signal	Function
80	MODE2	P14/ANI4
79	MODE1	P13/ANI3
78		P12/ANI2
77		P11/ANI1
76	DVDBAND	P10/ANI0
75	AVREF0	AVREF0
74	VDD0	VDD0
73	XT1	XT1/P07
72	XT2	XT2
71		IC
70	X1	X1
69	X2	X2
68	VDD1	VDD1
67	VSS0	Vss0
66		P05/INTP5
65		P04/INTP4
64	MCRDY	P03/INTP3
63	DSTBX	P02/INTP2
62	POFF	P01/INTP1/TI01
61	EX_IRIN	P00/INTP0/TI00

Left pins (1–20):

Pin	External	Internal
1		P15/ANI5
2		P16/ANI6
3	MCRST	P17/ANI7
4	AVSS	Avss
5		P130/ANO0
6	FL ON/OFF	P131/ANO1
7	AVREF1	AVREF1
8	FPSI	P70/SI2/RxD0
9	FLSO	P71/SO2/RxD0
10	FPCLK	P72/SCK2/ASCK
11	DSPSO	P20/SI1
12	DSPSI	P21/SO1
13	DSPCKX	P22/SCK1
14	R232TXD	P23/STB/TxD1
15	R232RXD	P24/BUSY/RxD1
16	MCSDI	P25/SI0/SB0
17	MCSDO	P26/SO0/SB1
18	MCCLK	P27/SCK0
19	LADING_SW1	P40/AD0
20	LADING_SW2	P41/AD1

Right pins (60–41):

Pin	Internal	External
60	RESET	RESET
59	P127/RTP7	
58	P126/RTP6	
57	P125/RTP5	RIOUT
56	P124/RTP4	RIIN
55	P123/RTP3	
54	P122/RTP2	
53	P121/RTP1	
52	P120/RTP0	
51	P37	
50	P36/BUZ	
49	P35/PCL	
48	P34/TI2	
47	P33/TI1	PWRCTR
46	P32/TO2	AMUT
45	P31/TO1	
44	P30/TO0	VDOFF
43	P67/ASTB	
42	P66/WAIT	
41	P65/WR	

Bottom pins (21–40):

Pin	Signal	External
21	P42/AD2	LADING_SW3
22	P43/AD3	CURRENT
23	P44/AD4	STOP_POS_SENS
24	P45/AD5	DISC_SENS
25	P46/AD6	
26	P47/AD7	
27	P50/A8	LOADING_R
28	P51/A9	LOADING_L
29	P52/A10	ROTR
30	P53/A11	ROTL
31	P54/A12	ROTHI
32	P55/A13	
33	Vss1	VSS1
34	P56/A14	
35	P57/A15	
36	P60	
37	P61	
38	P62	
39	P63	
40	P64/RD	

MICROPROCESSOR TERMINAL DESCRIPTION-2

PIN NO.	Sign	Functional name	I/O	Description
1	P15/ANI5			
2	P16/ANI6			
3	P17/ANI7	$\overline{\text{MCRST}}$	O	Reset output pin for sub microprocessor.
4	Avss	AVSS	I	To connect VSS.
5	P130/ANO0			
6	P131/ANO1	FL ON/OFF	O	Power ON/ OFF pin of FL tube.
7	AVREF1	AVREF1	I	Reference voltage input pin for D/A converter.
8	P70/SI2/RxD0	FPSI	I	Serial data input pin for Flash processor.
9	P71/SO2/RxD0	FLSO	O	Serial data output pin for Flash processor.
10	P72/SCK2/ASCK	FPCLK	I	Serial clock input pin for Flash processor.
11	P20/SI1	DSPSO	I	Serial communication port (SO).
12	P21/SO1	DSPSI	O	Serial communication port (SI).
13	P22/SCK1	DSPCKX	I	Serial communication port (CLK).
14	P23/STB/TxD1	R232TXD	O	TXD output pin. Serial data output pin at re-writing of the flash data.
15	P24/BUSY/RxD1	R232RXD	I	RXD input pin. Serial data input pin at re-writing of the flash data.
16	P25/SI0/SB0	MCSDI	I	Data input pin of sub microprocessor.
17	P26/SO0/SB1	MCSDO	O	Data output pin of sub microprocessor.
18	P27/SCK0	MCCLK	O	Serial clock output data pin.
19	P40/AD0	$\overline{\text{LADING\_SW1}}$	I	Detecting pin of loading switch-1.
20	P41/AD1	$\overline{\text{LADING\_SW2}}$	I	Detecting pin of loading switch-2.
21	P42/AD2	LADING_SW3	I	Detecting pin of loading switch-3.
22	P43/AD3	$\overline{\text{CURRENT}}$	I	Detecting current pin of loading (tray) motor.
23	P44/AD4	STOP_POS_SENS	I	The input terminal of the detection sensor of a roulette stop position.
24	P45/AD5	DISC_SENS	I	Disk detection sensor input terminal.
25	P46/AD6			
26	P47/AD7			
27	P50/A8	$\overline{\text{LOADING\_R}}$	O	Loading tray motor control terminal. L= right-handed rotation
28	P51/A9	$\overline{\text{LOADING\_L}}$	O	Loading tray motor control terminal. L= left-handed rotation
29	P52/A10	$\overline{\text{ROTR}}$	O	Roulette motor control terminal. L= clockwise rotation.
30	P53/A11	$\overline{\text{ROTL}}$	O	Roulette motor control terminal. L= counterclockwise rotation.
31	P54/A12	ROTHI	O	Roulette motor speed control terminal.
32	P55/A13		O	
33	Vss1	VSS1	O	To connect to GND.
34	P56/A14			
35	P57/A15			
36	P60			Not used. To connect to GND
37	P61			Not used. To connect to GND
38	P62			Not used. To connect to GND
39	P63			Not used. To connect to GND

MICROPROCESSOR TERMINAL DESCRIPTION-3

PIN NO.	Sign	Functional name	I/O	Description
40	P64/RD			Not used. To connect to GND
41	P65/WR			Not used. To connect to GND
42	P66/WAIT			Not used. To connect to GND
43	P67/ASTB			Not used. To connect to GND
44	P30/TO0	$\overline{\text{VDOFF}}$	O	Video off signal output pin.
45	P31/TO1			
46	P32/TO2	AMUT	O	Analog mute signal output pin.
47	P33/TI1	PWRCTR	O	Power control output pin. When power ON is "H".
48	P34/TI2			Not used. To connect to GND
49	P35/PCL			Not used. To connect to GND
50	P36/BUZ			Not used. To connect to GND
51	P37			Not used. To connect to GND
52	P120/RTP0			Not used. To connect to GND
53	P121/RTP1			Not used. To connect to GND
54	P122/RTP2			Not used. To connect to GND
55	P123/RTP3			Not used. To connect to GND
56	P124/RTP4	RIIN	I	RI system code data input pin.
57	P125/RTP5	$\overline{\text{RIOUT}}$	O	RI system code data output pin.
58	P126/RTP6			Not used. To connect to GND
59	P127/RTP7			Not used. To connect to GND
60	RESET	$\overline{\text{RESET}}$	I	Reset pin of microprocessor.
61	P00/INTP0/TI00	$\overline{\text{EX\_IRIN}}$	I	Remote control signal input pin from multi room.
62	P01/INTP1/TI01	$\overline{\text{POFF}}$	I	Power failure detection pin.
63	P02/INTP2	DSTBX	I	Serial data output pin (main STB signal).
64	P03/INTP3	MCRDY	I	Ready data detecting input pin of sub microprocessor.
65	P04/INTP4			Not used. To connect to GND
66	P05/INTP5			Not used. To connect to GND
67	Vss0	VSS0	I	To connect to GND
68	VDD1	VDD1	I	To connect to GND
69	X2	X2	O	The crystal (5MHz) connection terminal for a main system clock oscillation.
70	X1	X1	I	The crystal (5MHz) connection terminal for a main system clock oscillation.
71	IC		I	To connect to GND. Internal connection pin.
72	XT2	XT2	O	Not used. Use to clock oscillator connection for sub microprocessor.
73	XT1/P07	XT1	I	Not used. To connect to VDD
74	VDD0	VDD0	I	To connect to +5V (power supply).
75	AVREF0	AVREF0	I	The reference voltage input pin of a A/D converter.
76	P10/ANI0	DVDBAND	I	The destination judging terminal for DVD.
77	P11/ANI1	MODE1	I	Mode select input pin 1.
78	P12/ANI2	MODE2	I	Mode select input pin 2.
79	P13/ANI3			Not used. To connect to GND
80	P14/ANI4			Not used. To connect to GND

PART REPLACEMENT-1

1. CABINET REPLACEMENT
1-1. Top cover and front panel
1-1-1. Remove the top cover. (six screws)
1-1-2. Remove the front panel assy. Remove the FFC (P704) and three screws.

1-2. Camper stay and Roulette
1-2-1. Remove the three screws and clamper assy. (1)
1-2-2. Remove one screw and roulette. (2)

(1)
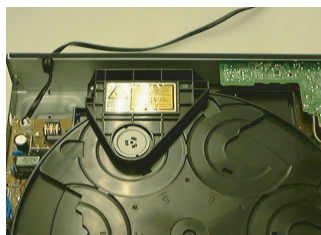
Screw

Roulette
(2)

1-3. Tray panel and Mechanism assy
<Mechanism assy>
1-3-1. Remove four screws. (1)
1-3-2. Remove the mechanism assy.
1-3-3. Remove the FFC. (2)
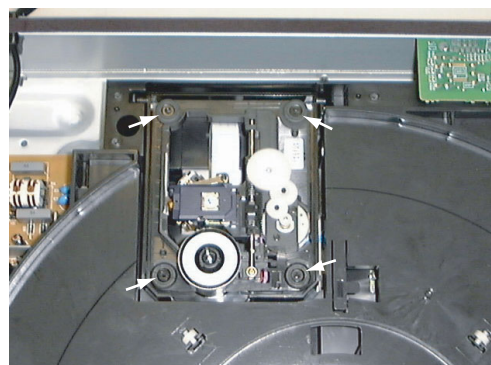
(1)
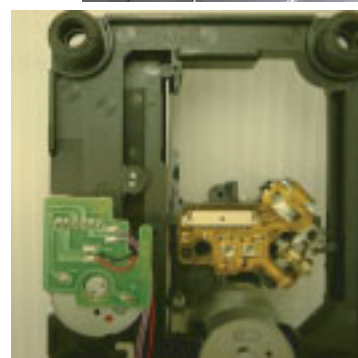
(2)

Slide a holder direction the allow and remove the FFC.

FFC

PC board
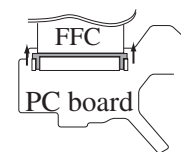
Bottom side of mechanism

<Tray panel>
Removal
1-4-1. Slide the slider on the bottom chassis. (1)
1-4-2. Eject the tray panel.
1-4-3. Remove one FFC (P707) and draw out the tray while pulling a nail. (2)

(1)

2 times
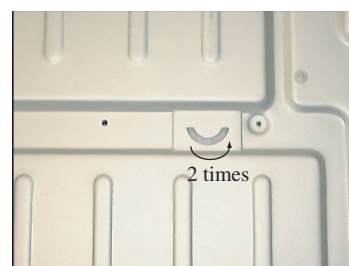
Bottom side view

Nail

(2)

PART REPLACEMENT-2
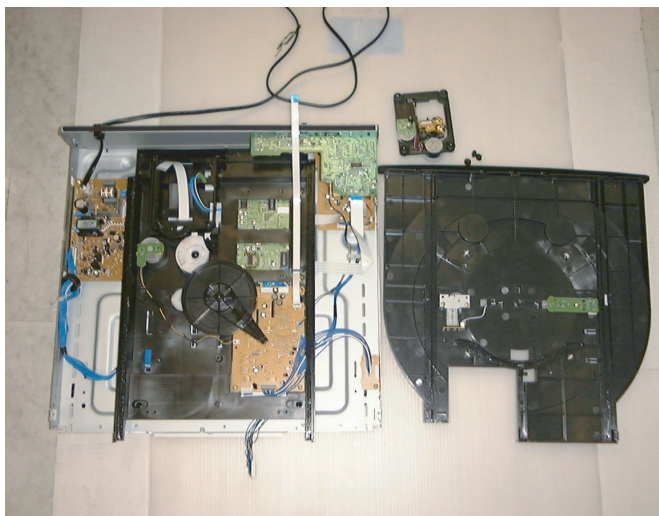
Tray panel
<Mounting>

1-4-4. Insert the tray panel.
1-4-5. Set the FFC (P707) to mechanism control PC board assy.
1-4-6. The pin of main gear and fiting the position of the
slot on the tray.
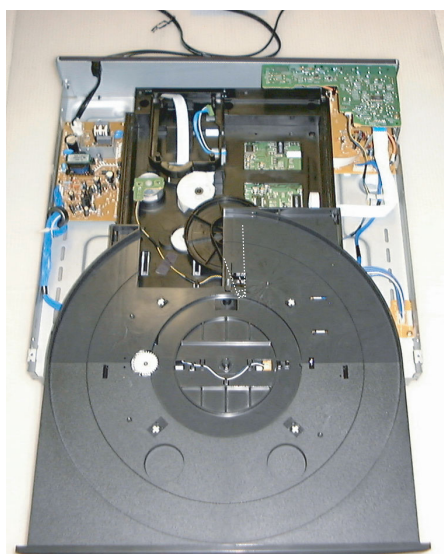
1-4-7. Pull up the nail on the tray panel and insert the tray.

Nail

UPDATE FIRMWARE-1

TV monitor

Region Code:	1
Software Version:	1.10.A
Loader:	01.31 6
Panel Version:	----
Disc Address:	00000000

ONKYO®
IMAGINATIVE SIGHT & SOUND
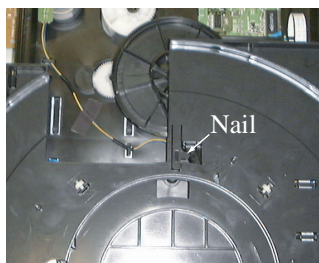
1 Check the version of firmware

1. Press the "STOP" key, while the set press
   the "DISPLAY" key in state of No DISC condition.
2. Press the "DISPLAY" key.
   Displayed on FL tube.

FL Display

SUB ******

X, XX, X

Destination and FW version
Region code

3. Press the "STANDBY" key and finish the FW check mode.

2 Writing the firmware in CD-R

Prepare the required data file.
 1. BANK30.ROM
 "BANK30.ROM" is the program file for firmware.
 2. Dummy data file. (About 40MB)

NOTE: Every version and destination has
       same file name.

Make the file holder
 Make the holder on the personal computer and
 make the required file the following tree structures.

C: ────────── GARNET.F16 ←── Firmware program file

└─ ETC ─┬─ File A
        ├─ File B ←──── About 40MB data file.
        └─ File C   A file name, a kind, and quantity do not have specification.
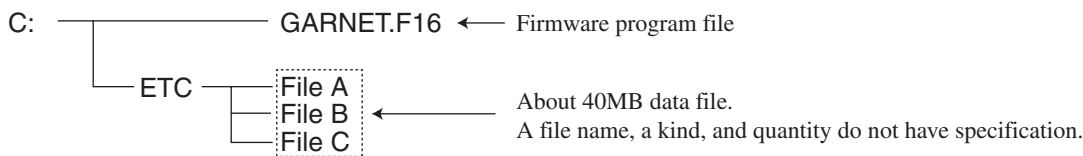
NOTE: 1. Writing format is ISO9660 style.
      2. Finalize are single session.

3 Check operation of unit

Chech that the compact disc can be play normally.
If compact disc cannot be play normally, cannot do the update firmware.

4 Connect the display to the unit

To connect "VIDEO IN" terminal of TV and "VIDEO" terminal of the unit.

5 Update firmware

1. Press the "**OPEN/CLOSE**" button of the unit and tray is open.
2. Set the CD-R on disc-1 bay.

   It is displayed on TV as "WRITING." ──────▶ "DONE"
   After writing is completed, the tray opens automatically.

FL Display

LOADING

3. Disc is taken out.
   After Tray has opened, the "DISPLAY" button is pushed and push the "STOP" button.
   Press "STANDBY/ON" button.

6 Check the version of firmware

Refer to item 1

UPDATE FIRMWARE-2

Exchange of DVD main board (NADG-7807)

1 Update firmware

Check the version of present firmware.

DVD main board is not necessarily in the newest version.

2 Setting the region code
  [Preparation]
  Remote controller: RC-484M Part No. 24140484

RC-484M

❶ Press the "DVD" key and "2" key of the remote controller.

❷ Press the "RETURN" key.

❸ Press the number key of region code.

> **CDD1N** type   **(U.S.A. model)**
>   Region-1 Press the 1 key
> **CPA4P** type   (**Australian model)**
>   Region-4   Press the 4 key

Press the STOP button of unit.

FL display

NO DISC

REGION SET

In the case of Australian model

REGION 04

RESET

NO DISC

SP SETUP
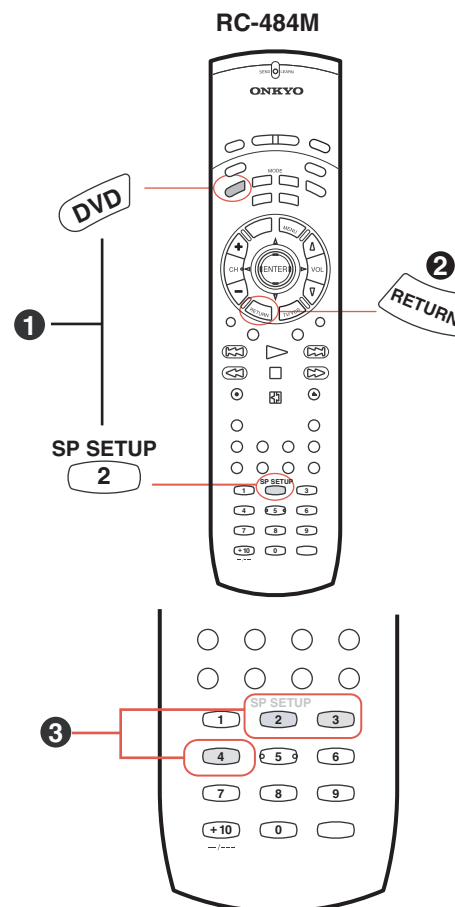
3 Check the version of the firmware and region code

Refer to procedure **step 1**

PACKING VIEW

PRINTED CIRCUIT BOARD PARTS LIST-1
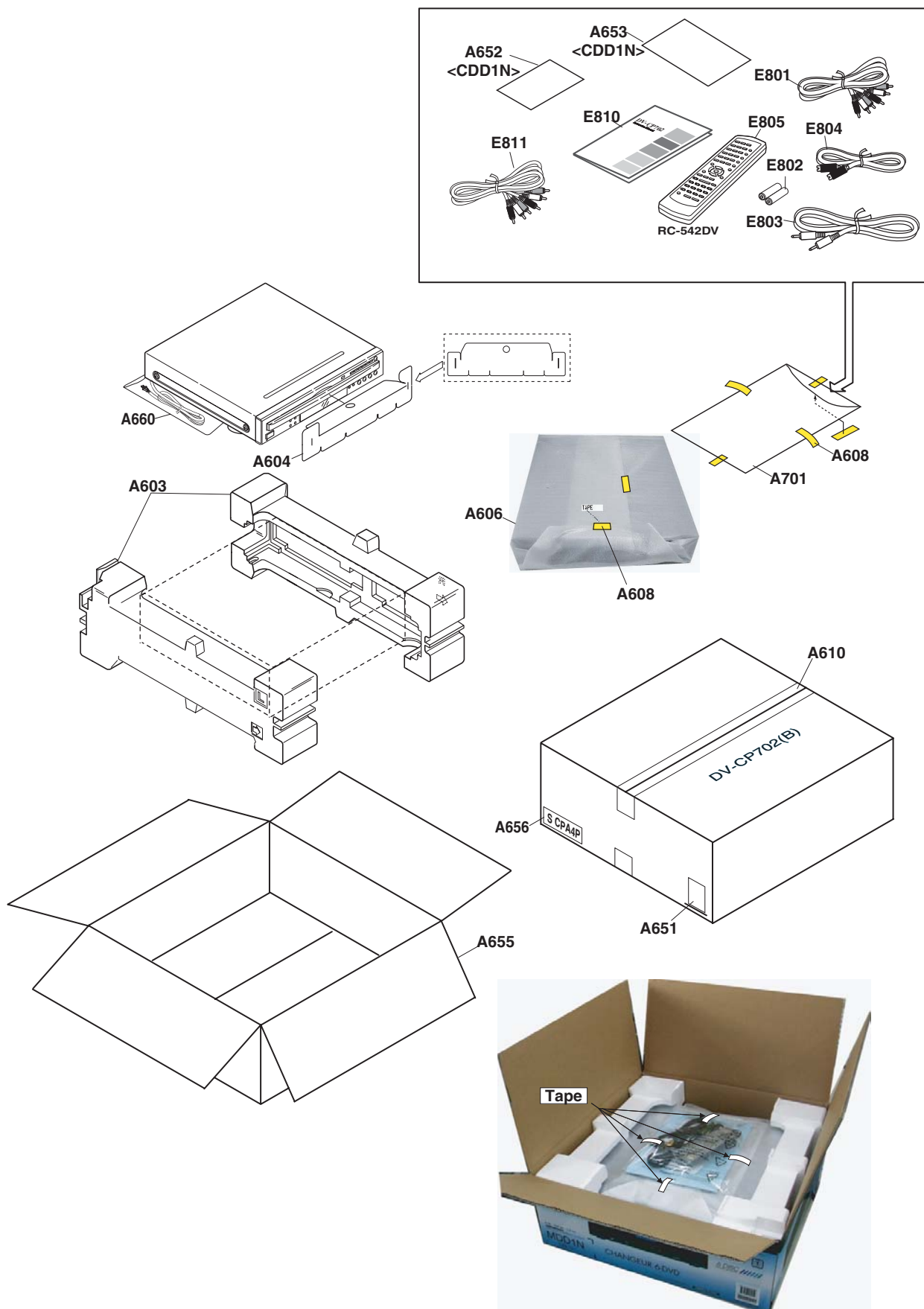
U1 : DVD MAIN CIRCUIT PC BOARD

CIRCUIT NO.	PART NAME	PART NO.	DESCRIPTION	REMARK	N
C1001	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1002	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1003	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1		
C1004	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1		
C1005	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1		
C1006	C-CERA C	15CH-220J-P-AC	CC725CH1H-220J1		
C1007	C-CERA C	150F-222K-P-AC	CK725B1H-222K1		
C1008	C-CERA C	150F-222K-P-AC	CK725B1H-222K1		
C1009	C-CERA C	150F-222K-P-AC	CK725B1H-222K1		
C1010	C-CERA C	150F-222K-P-AC	CK725B1H-222K1		
C1011	C-CERA C	15CH-331J-P-AC	CC725CH1H-331J1		
C1012	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1013	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1014	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1015	C-CERA C	150F-333K-P-AC	CK725B1H-333K1		
C1016	C-CERA C	150F-333K-P-AC	CK725B1H-333K1		
C1017	C-CERA C	15CH-151J-P-AC	CC725CH1H-151J1		
C1018	C-CERA C	150C-474K-P-AC	CK725B1A-474K1		
C1019	C-CERA C	150C-474K-P-AC	CK725B1A-474K1		
C1020	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1021	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1022	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1023	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1024	C-CERA C	150F-473K-P-AC	CK725B1H-473K1		
C1025	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1026	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1027	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1		
C1028	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1029	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1030	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1031	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1032	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1033	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1034	C-CERA C	150D-104K-P-AC	CK725B1C-104K1		
C1035	C-CERA C	150F-103K-P-AC	CK725B1H-103K1		
C1036	C-CERA C	15CH-100J-P-AC	CC725CH1H-100D1		
C1037	C-CERA C	15CH-100J-P-AC	CC725CH1H-100D1		
C1038	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1039	CHIP ELECT C	157B-476M-3-JJI	CEWX6.3V-47M		
C1040	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1		
C1041	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1042	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1043	CHIP ELECT C	157B-476M-3-JJI	CEWX6.3V-47M		
C1044	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1		
C1045	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1046	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1047	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1049	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1050	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M		
C1051	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1052	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1053	CHIP ELECT C	157F-105M-3-HJI	CEWX50V-1M		
C1101	C-CERA C	15CH-221J-P-AC	CC725CH1H-221J1		
C1102	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1		
C1103	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1		
C1104	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1105	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1106	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1107	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1108	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1109	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M		
C1110	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1		
C1111	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1112	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M		
C1113	C-CERA C	150F-223K-P-AC	CK725B1H-223K1		
C1114	C-CERA C	150F-223K-P-AC	CK725B1H-223K1		
C1115	C-CERA C	150F-473K-P-AC	CK725B1H-473K1		
C1116	C-CERA C	150F-223K-P-AC	CK725B1H-223K1		

C1117	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1201	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1202	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1203	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1206	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1207	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1208	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1209	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1210	C-CERA C	15CH-151J-P-AC	CC725CH1H-151J1	
C1211	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1212	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C1213	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C1214	C-CERA C	150F-223K-P-AC	CK725B1H-223K1	
C1215	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C1216	C-CERA C	150D-154K-P-AC	CK725B1A-154K1	
C1217	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1218	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1219	C-CERA C	15CH-331J-P-AC	CC725CH1H-331J1	
C1220	C-CERA C	15CH-331J-P-AC	CC725CH1H-331J1	
C1221	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1222	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1223	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1224	C-CERA C	150F-473K-P-AC	CK725B1H-473K1	
C1225	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1226	C-CERA C	150F-103K-P-AC	CK725B1H-103K1	
C1227	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1228	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1229	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1230	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1232	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1233	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1234	CHIP ELECT C	157D-226M-3-JJI	CEWX16V-22M	
C1235	CHIP ELECT C	157B-226M-3-HJI	CEWX6.3V-22M	
C1236	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C1237	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C1238	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C1239	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C1251	C-CERA C	15CH-471J-P-AC	CC725CH1H-471J1	
C1252	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1253	C-CERA C	15CH-471J-P-AC	CC725CH1H-471J1	
C1254	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1255	C-CERA C	15CH-471J-P-AC	CC725CH1H-471J1	
C1256	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C1257	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2001	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2002	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2003	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2004	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2005	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2006	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2007	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2008	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2009	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2010	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2011	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2012	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2013	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2014	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2015	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2016	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2017	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2018	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2019	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2020	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2021	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2022	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2023	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2024	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C2025	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2026	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2027	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2028	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	

C2029	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2301	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2302	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2303	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2304	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2305	C-CERA C	15CH-101J-P-AC	CC725CH1H-101J1	
C2306	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2307	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2308	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2309	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2310	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2311	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2312	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2313	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2314	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2315	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2316	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C2317	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2318	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2401	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2402	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2403	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2405	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2406	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2407	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2408	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2409	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2410	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2411	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2412	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2413	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2414	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2415	CHIP ELECT C	157D-106M-3-HJI	CEWX16V-10M	
C2416	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1	
C2417	C-CERA C	15CH-102J-P-AC	CC725CH1H-102J1	
C2418	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2419	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2501	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2502	C-CERA C	150F-104K-P-AC	CK725F1E-104Z1	
C2601	CHIP ELECT C	157B-226M-3-HJI	CEWX6.3V-22M	
C2602	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2603	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2604	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2605	C-CERA C	150C-105Z-P-AC	CK725F1A-105Z1	
C2606	C-CERA C	15CH-120J-P-AC	CC725CH1H-120J1	
C2608	C-CERA C	15CH-120J-P-AC	CC725CH1H-120J1	
C2901	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2902	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2903	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2904	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2905	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2906	CHIP ELECT C	157B-107M-3-MJI	CEWX6.3V-100M	
C2907	CHIP ELECT C	157A-227M-3-MJI	CEWX4V-220M	
C2951	C-CERA C	15CH-560J-P-AC	CC725CH1H-560J1	
L1001	CHOKE COIL	1803-0063-0	NCH-1479	
L1002	CHOKE COIL	1803-0063-0	NCH-1479	
L1201	CHOKE COIL	1803-0064-0	NCH-1471	
L1202	CHOKE COIL	1803-0064-0	NCH-1471	
L1203	CHOKE COIL	1803-0064-0	NCH-1471	
L1204	CHOKE COIL	1803-0064-0	NCH-1471	
L1251	CHOKE COIL	1803-0064-0	NCH-1471	
L2001	CHOKE COIL	1803-0064-0	NCH-1471	
L2002	CHOKE COIL	1803-0064-0	NCH-1471	
L2301	CHOKE COIL	1803-0064-0	NCH-1471	
L2302	CHOKE COIL	1803-0064-0	NCH-1471	
L2401	CHOKE COIL	1803-0064-0	NCH-1471	
L2404	CHOKE COIL	1803-0064-0	NCH-1471	
L2601	CHOKE COIL	1803-0074-0	BLM21P221SG	
L2602	CHOKE COIL	1803-0074-0	BLM21P221SG	
L2901	CHOKE COIL	1803-0064-0	NCH-1471	
L2902	CHOKE COIL	1803-0064-0	NCH-1471	
L2903	CHOKE COIL	1803-0064-0	NCH-1471	

	Ref	Part	Code	Part No.	Notes
	L2904	CHOKE COIL		1803-0064-0	NCH-1471	
	P1001	SOCKET	2101-1414-0	NSCT-26P2671	PU-Main
	P1101	PLUG	2101-1410-0	NPLG-6P932	TRV-Main
	P2001B	SOCKET	2101-1413-0	NSCT-14P2684	DAC2ch-Main
	P2401B	SOCKET	2101-1412-0	NSCT-15P2685	Video-Main
	P2501A	PLUG	2101-3014-0	L2003P07S0T	SubMicom-Main
	P2901A	PLUG	2101-1410-0	NPLG-6P932	Power
	Q1001	IC	3131-9990-0	CXD1881BR	DVD ANALOG FRONTEND
	Q1002	IC	3132-0010-0	NJM2115V	
	Q1003	TR	4853-0190-3	2SK3019	
	Q1004	TR	4853-0190-3	2SK3019	
	Q1005	TR	4853-0190-3	2SK3019	
	Q1006	TR	4851-132R-3	2SB1132	
	Q1007	TR	4851-132R-3	2SB1132	
	Q1101	IC	3132-0020-0	FAN8042	
	Q1102	IC	3132-0030-0	BA4510FV	
	Q1201	IC	3132-0040-0	CXD1885Q	
	Q1251	IC	3132-0050-0	IC41LV16100-50T	EDO-DRAM
	Q1251 or	IC	3132-0050-0	IC41LV16100-50T	EDO-DRAM
C	Q2001	IC	3132-0060-0	M65783AFP	**<CPA4P>**
	Q2002	IC	3132-0070-0	S-80127CNMC-JKM-T2	
	Q2003	IC	3132-0290-0	IS24C08-3Z	E2PROM
	Q2301	IC	3132-0090-0	TC74VCX162373FT	
C	Q2302	IC	3132-0100-0	MX29LV160ABTC-90	Need PreWriting **<CPA4P>**
C	Q2302 or	IC	3132-0860-0	MX29LV160ABTC-70	Need PreWriting **<CPA4P>**
	Q2303	IC	3132-0110-0	IC42S16400-7T	SDRAM
	Q2303 or	IC	3132-0110-0	IC42S16400-7T	SDRAM
	Q2401	IC	3132-0120-0	NJM2373AF	
	Q2402	TR	4851-774R-3	2SA1774	
	Q2403	TR	4851-774R-3	2SA1774	
	Q2404	TR	4851-774R-3	2SA1774	
	Q2405	TR	4851-774R-3	2SA1774	
	Q2406	TR	4851-774R-3	2SA1774	
	Q2501	IC	3132-0130-0	TC74VHCT125AFT	
	Q2502	IC	3132-0140-0	TC7SZ125FU	
	Q2601	IC	3132-0150-0	BU2288FV	CLOCKGENERATOR
	Q2901	IC(REGULATOR)	3132-0160-0	MPC29M33T	
	Q2902	IC(REGURATOR)	3132-0170-0	MPC2918T	
	Q2903	IC(REGURATOR)	3132-0170-0	MPC2918T	
	Q2904	IC(REGULATOR)	3132-0160-0	MPC29M33T	
	R1001	C-R NET	8911-0015-0	RM4KJ152X04	
	R1002	C-R NET	8911-0023-0	RM4KJ000X04	
	R1003	C-CARBON R	4723-123A-P-R	RN72K1J-123FE	
	R1004	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
	R1005	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
	R1006	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
	R1007	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
	R1009	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
	R1010	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
	R1011	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
	R1012	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
	R1014	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
	R1015	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
	R1016	C-CARBON R	4723-330J-P-R	RN72K1J-330JE	
	R1017	C-CARBON R	4723-330J-P-R	RN72K1J-330JE	
	R1018	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
	R1019	C-CARBON R	4723-330J-P-R	RN72K1J-330JE	
	R1020	C-CARBON R	4723-330J-P-R	RN72K1J-330JE	
	R1021	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
	R1022	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
	R1023	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
	R1027	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
	R1028	C-CARBON R	4723-392J-P-R	RN72K1J-392JE	
	R1029	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
	R1101	C-CARBON R	4723-563J-P-R	RN72K1J-563JE	
	R1102	C-CARBON R	4723-153J-P-R	RN72K1J-153JE	
	R1103	C-CARBON R	4723-563J-P-R	RN72K1J-563JE	
	R1104	C-CARBON R	4723-333J-P-R	RN72K1J-333JE	
	R1105	C-CARBON R	4723-563J-P-R	RN72K1J-563JE	
	R1106	C-CARBON R	4723-333J-P-R	RN72K1J-333JE	
	R1107	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
	R1108	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	

R1109	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1110	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1111	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1112	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1113	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R1114	C-CARBON R		4723-752J-P-R	RN72K1J-752JE	
R1115	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R1116	C-CARBON R		4723-752J-P-R	RN72K1J-752JE	
R1117	C-CARBON R		4723-103A-P-R	RN72K1J-103FE	
R1118	C-CARBON R		4723-103A-P-R	RN72K1J-103FE	
R1119	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1120	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1121	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1122	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R1123	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1124	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1125	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1126	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R1127	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1128	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1202	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1205	C-R NET		8911-0016-0	RM4KJ101X04	
R1206	C-R NET		8911-0016-0	RM4KJ101X04	
R1207	C-CARBON R		4723-181J-P-R	RN72K1J-181JE	
R1208	C-R NET		8911-0016-0	RM4KJ101X04	
R1209	C-R NET		8911-0017-0	RM4KJ330X04	
R1210	C-R NET		8911-0016-0	RM4KJ101X04	
R1211	C-R NET		8911-0016-0	RM4KJ101X04	
R1212	C-R NET		8911-0018-0	RM4KJ181X04	
R1213	C-R NET		8911-0019-0	RM4KJ103X04	
R1214	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R1215	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R1216	C-CARBON R		4723-154J-P-R	RN72K1J-154JE	
R1217	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R1218	C-CARBON R		4723-683J-P-R	RN72K1J-683JE	
R1219	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R1220	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R1221	C-CARBON R		4723-182J-P-R	RN72K1J-182JE	
R1222	C-CARBON R		4723-182J-P-R	RN72K1J-182JE	
R1223	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R1224	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1225	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1226	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1227	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1228	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1229	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1230	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1231	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R1232	C-CARBON R		4723-152J-P-R	RN72K1J-152JE	
R1233	C-CARBON R		4723-333J-P-R	RN72K1J-333JE	
R1234	C-R NET		8911-0016-0	RM4KJ101X04	
R1235	C-R NET		8911-0016-0	RM4KJ101X04	
R1236	C-R NET		8911-0016-0	RM4KJ101X04	
R1237	C-R NET		8911-0016-0	RM4KJ101X04	
R1238	C-R NET		8911-0016-0	RM4KJ101X04	
R1240	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R1241	C-R NET		8911-0016-0	RM4KJ101X04	
R1242	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1243	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1244	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R1251	C-R NET		8911-0016-0	RM4KJ101X04	
R1252	C-R NET		8911-0016-0	RM4KJ101X04	
R1253	C-R NET		8911-0016-0	RM4KJ101X04	
R1254	C-R NET		8911-0016-0	RM4KJ101X04	
R1291	C-R NET		8911-0020-0	RM6KJ103X08	
R1292	C-R NET		8911-0020-0	RM6KJ103X08	
R1293	C-R NET		8911-0020-0	RM6KJ103X08	
R2001	C-CARBON R		4723-470J-P-R	RN72K1J-470JE	
R2002	C-CARBON R		4723-470J-P-R	RN72K1J-470JE	
R2003	C-CARBON R		4723-470J-P-R	RN72K1J-470JE	
R2004	C-CARBON R		4723-470J-P-R	RN72K1J-470JE	
R2005	C-CARBON R		4723-470J-P-R	RN72K1J-470JE	

R2006	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2007	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2008	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2009	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2010	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2011	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2015	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2016	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2017	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2018	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2019	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2020	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2021	C-CARBON R	4723-100J-P-R	RN72K1J-100JE	
R2022	C-R NET	8911-0021-0	RM4KJ470X04	
R2023	C-R NET	8911-0021-0	RM4KJ470X04	
R2024	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2025	C-R NET	8911-0021-0	RM4KJ470X04	
R2026	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2027	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2028	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R2029	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R2030	C-CARBON R	4723-100J-P-R	RN72K1J-100JE	
R2031	C-CARBON R	4723-100J-P-R	RN72K1J-100JE	
R2032	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2033	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2034	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2035	C-R NET	8911-0021-0	RM4KJ470X04	
R2036	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2037	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2038	C-R NET	8911-0022-0	RM4KJ150X04	
R2039	C-R NET	8911-0022-0	RM4KJ150X04	
R2040	C-R NET	8911-0022-0	RM4KJ150X04	
R2041	C-R NET	8911-0022-0	RM4KJ150X04	
R2042	C-R NET	8911-0022-0	RM4KJ150X04	
R2043	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2044	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2045	C-CARBON R	4723-472J-P-R	RN72K1J-472JE	
R2049	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2050	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2051	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2052	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2053	C-CARBON R	4723-470J-P-R	RN72K1J-470JE	
R2054	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2055	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2056	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2057	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2301	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2302	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R2401	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2402	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R2403	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2405	C-CARBON R	4723-100J-P-R	RN72K1J-100JE	
R2406	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2407	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2408	C-CARBON R	4723-332A-P-R	RN72K1J-332FE	
R2410	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2411	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2412	C-CARBON R	4723-332A-P-R	RN72K1J-332FE	
R2414	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2415	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2416	C-CARBON R	4723-152A-P-R	RN72K1J-152FE	
R2417	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2418	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2419	C-CARBON R	4723-152A-P-R	RN72K1J-152FE	
R2420	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2421	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2422	C-CARBON R	4723-152A-P-R	RN72K1J-152FE	
R2423	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2424	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	
R2425	C-CARBON R	4723-152A-P-R	RN72K1J-152FE	
R2426	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R2427	C-CARBON R	4723-271A-P-R	RN72K1J-271FE	

R2428	C-CARBON R	4723-152A-P-R	RN72K1J-152FE	
R2429	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2430	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2431	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2501	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2502	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2503	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2504	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2505	C-CARBON R	4723-220J-P-R	RN72K1J-220JE	
R2601	C-CARBON R	4723-561J-P-R	RN72K1J-561JE	
R2602	EMI FIL	1806-3705-0	BK1608TS431-T	
R2603	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R2604	EMI FIL	1806-3706-0	BK1608HM471-T	
R2605	EMI FIL	1806-3705-0	BK1608TS431-T	
R2608	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2901	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2902	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2903	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2954	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2955	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
X2601	CRYSTAL	2300-2220-0	FCX-03-27MHz	

PRINTED CIRCUIT BOARD PARTS LIST-2

DV-CP702

U3 : Front disp. PC board assy   NADIS-7808-1A <CDD1N>, NADIS-7808-1B <CPA4P>
U4 : Mecha. Control PC board assy   NADG-7809-1A <CDD1N>, NADG-7809-1B <CPA4P
U5 : Video output terminal PC board as   NAVD-7810-1A <CDD1N>, NAVD-7810-1B <CPA4P>
U6 : Audio output terminal PC board as   NAAF-7811-1A <CDD1N>, NAAF-7811-1B <CPA4P>
U7 : Disc select switch PC board assy   NASW-7812-1A <CDD1N>, NASW-7812-1B <CPA4P>
U8 : Key operation PC board assy   NASW-7813-1A <CDD1N>, NASW-7813-1B <CPA4P>
U9 : Standby switch PC board assy   NASW-7814-1A <CDD1N>, NASW-7814-1B <CPA4P>
U10 : LED display PC board assy   NADIS-7815-1A <CDD1N>, NADIS-7815-1B <CPA4P>
U11 : Roulette motor PC board assy   NAETC-7816-1A <CDD1N>, NAETC-7816-1B <CPA4P>
U12 : Loading motor PC board assy   NAETC-7817-1A <CDD1N>, NAETC-7817-1B <CPA4P>

CIRCUIT NO.	PART NAME	PART NO.	DESCRIPTION	REMARK N
D101	C-DIODE	4840-1660-0	1SS355	
D101 or	C-DIODE	480S-3520-3	1SS352	
D102	C-DIODE	4840-1660-0	1SS355	
D102 or	C-DIODE	480S-3520-3	1SS352	
D103	C-DIODE	4840-1660-0	1SS355	
D103 or	C-DIODE	480S-3520-3	1SS352	
D104	C-DIODE	4840-1660-0	1SS355	
D104 or	C-DIODE	480S-3520-3	1SS352	
D401	C-DIODE	4840-1660-0	1SS355	
D401 or	C-DIODE	480S-3520-3	1SS352	
D701	ZENER D	483H-2V71-3	UDZ2.7B	
D702	ZENER D	483H-2V21-3	UDZ2.2B	
D703	ZENER D	483H-4V31-3	UDZS4.3B	
D731	C-DIODE	4840-1660-0	1SS355	
D731 or	C-DIODE	480S-3520-3	1SS352	
D732	ZENER D	483H-5V11-3	UDZS5.1B	
D733	C-DIODE	4840-1660-0	1SS355	
D733 or	C-DIODE	480S-3520-3	1SS352	
D734	C-DIODE	4840-1660-0	1SS355	
D734 or	C-DIODE	480S-3520-3	1SS352	
D801	LED	3700-2824-B	SLR-343BBT-XG	
D801 or	LED	3700-2835-B	SLR-343BBT-XH	
D801A	HOLDER	4171-0021-0	(LED)LA-5-6	
D802	LED	3700-2824-B	SLR-343BBT-XG	
D802 or	LED	3700-2835-B	SLR-343BBT-XH	
D802A	HOLDER	4171-0021-0	(LED)LA-5-6	
D803	LED	3700-2531-R	SLR-342VR	
Q109	TR	485A-1140-3	DTA114YKA	
Q109 or	TR	4852-4070-3	RN2407	
Q109 or	TR	4860-3440-3	KRA107S	
Q110	TR	485C-1140-3	DTC114YKA	
Q110 or	TR	4851-4070-3	RN1407	
Q110 or	TR	4851-07S0-3	KRC107S	
Q201	IC	3131-8760-0	LA73054	
Q202	TR	485C-1140-3	DTC114YKA	
Q202 or	TR	4851-4070-3	RN1407	
Q202 or	TR	4851-07S0-3	KRC107S	
Q203	TR	485A-1140-3	DTA114YKA	
Q203 or	TR	4852-4070-3	RN2407	
Q203 or	TR	4860-3440-3	KRA107S	
Q401	IC	3132-0180-0	PCM1742KE	
Q403	IC	3131-9970-0	NJM4580M-D	

Q404	IC	3131-9970-0	NJM4580M-D	
Q405	IC	3131-9970-0	NJM4580M-D	
Q406	IC	3131-9970-0	NJM4580M-D	
Q407	TR	485C-03FB-3	HN1C03F-B	
Q408	TR	485C-03FB-3	HN1C03F-B	
Q411	IC	3131-9960-0	TC74VHCU04FT	
Q412	PHT CP	481T-X179-3	TOTX179	
Q413	IC	3132-0270-0	NJM2370U05	
Q415	TR	485C-1140-3	DTC114YKA	
Q415 or	TR	4851-4070-3	RN1407	
Q415 or	TR	4851-07S0-3	KRC107S	
Q416	TR	485C-1140-3	DTC114YKA	
Q416 or	TR	4851-4070-3	RN1407	
Q416 or	TR	4851-07S0-3	KRC107S	
Q417	TR	485A-1140-3	DTA114YKA	
Q417 or	TR	4852-4070-3	RN2407	
Q417 or	TR	4860-3440-3	KRA107S	
Q418	TR	485A-1140-3	DTA114YKA	
Q418 or	TR	4852-4070-3	RN2407	
Q418 or	TR	4860-3440-3	KRA107S	
Q419	TR	485C-1140-3	DTC114YKA	
Q419 or	TR	4851-4070-3	RN1407	
Q419 or	TR	4851-07S0-3	KRC107S	
Q701	IC	3132-0190-1	MPD780053GC-141-8BT	
Q702	IC	3132-0200-0	S-80130CLMC-JIP-T2	
Q703	TR	485A-1140-3	DTA114YKA	
Q703 or	TR	4852-4070-3	RN2407	
Q703 or	TR	4860-3440-3	KRA107S	
Q704	IC	3131-7990-0	TA7291S	
Q705	IC	3131-7990-0	TA7291S	
Q706	TR	485C-1140-3	DTC114YKA	
Q706 or	TR	4851-4070-3	RN1407	
Q706 or	TR	4851-07S0-3	KRC107S	
Q707	TR	4851-162O-3	2SA1162-O	
Q709	TR	485C-1140-3	DTC114YKA	
Q709 or	TR	4851-4070-3	RN1407	
Q709 or	TR	4851-07S0-3	KRC107S	
Q710	TR	4852-712G-3	2SC2712-GR	
Q711	TR	4852-712G-3	2SC2712-GR	
Q712	TR	485C-1140-3	DTC114YKA	
Q712 or	TR	4851-4070-3	RN1407	
Q712 or	TR	4851-07S0-3	KRC107S	
Q713	TR	485D-655E-K	2SD655-E	
Q714	TR	485D-655E-K	2SD655-E	
Q715	TR	485A-1140-3	DTA114YKA	
Q715 or	TR	4852-4070-3	RN2407	
Q715 or	TR	4860-3440-3	KRA107S	
Q716	PHT INT	481P-2S28-3	GP2S28	
Q717	PHT CP	481P-I576-3	RPI-576	
Q801	IC	3131-9950-0	MPD780232GC-070-8BT	
Q802	FL TUBE	2460-2020-0	HNV-12SM34	
Q802A	HOLDER	4154-6111-0	(FL)	
Q802B	SCREW	2954-3006-3000	3TTB+6B(BC)	
Q805	TR	485C-1140-3	DTC114YKA	
Q805 or	TR	4851-4070-3	RN1407	
Q805 or	TR	4851-07S0-3	KRC107S	
Q806	TR	4852-712G-3	2SC2712-GR	

Q808	REMO SENS	481M-7138-3	RPM7138	
Q809	TR	485C-1140-3	DTC114YKA	
Q809 or	TR	4851-4070-3	RN1407	
Q809 or	TR	4851-07S0-3	KRC107S	
Q810	TR	485C-1140-3	DTC114YKA	
Q810 or	TR	4851-4070-3	RN1407	
Q810 or	TR	4851-07S0-3	KRC107S	
L201	EMIFIL	1806-3647-0	BK1608LM182-T	
L221	CHOKE COIL	1803-0080-0	NCH-1482	
L403	CHOKE COIL	1803-0064-0	NCH-1471	
L404	CHOKE COIL	1803-0064-0	NCH-1471	
L405	EMIFIL	1806-3647-0	BK1608LM182-T	
L406	CHOKE COIL	1803-0064-0	NCH-1471	
L407	EMIFIL	1806-3647-0	BK1608LM182-T	
L701	CHOKE COIL	1803-0075-0	NCH-3608K470	
L702	CHOKE COIL	1803-0075-0	NCH-3608K470	
X701	CERA LOCK	2703-0870-0	CSTLS4M50G56-A0	
X801	CERA LOCK	2703-0880-0	CSTS0500MG06	
C201	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C203	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)	
C205	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)	
C207	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)	
C209	ELECT C	157D-106M-K-IUI	CE04W16V10M(SC)	
C210	ELECT C	157B-107M-K-IUI	CE04W6.3V100M(SC)	
C211	ELECT C	157B-107M-K-IUI	CE04W6.3V100M(SC)	
C212	ELECT C	157B-108M-5-OVI	CE04W6.3V1000M(SC)	
C213	ELECT C	157B-477M-5-LUI	CE04W6.3V470M(SC)	
C214	ELECT C	157B-108M-5-OVI	CE04W6.3V1000M(SC)	
C215	ELECT C	157B-477M-5-LUI	CE04W6.3V470M(SC)	
C216	ELECT C	157B-477M-5-LUI	CE04W6.3V470M(SC)	
C217	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C231	C-CERA C	15CH-152J-P-AC	CC725CH1H-152J1	
C401	ELECT C	157D-107M-5-IUI	CE04W16V100M(SC)	
C402	ELECT C	157D-107M-5-IUI	CE04W16V100M(SC)	
C405	ELECT C	157B-227M-5-IUI	CE04W6.3V220M(SC)	
C406	ELECT C	157B-227M-5-IUI	CE04W6.3V220M(SC)	
C407	TF C	153F-104J-K-MMN	ECQ-V50V-104J	
C408	TF C	153F-104J-K-MMN	ECQ-V50V-104J	
C409	ELECT C	157F-475M-5-IUI	CE04W50V4.7M(SC)	
C410	TF C	153F-104J-K-MMN	ECQ-V50V-104J	
C411	ELECT C	157D-226M-5-IUI	CE04W16V22M(SC)	
C412	ELECT C	157D-226M-5-IUI	CE04W16V22M(SC)	
C413	TF C	153F-221K-5-MMN	ECQ-B50V-221K	
C414	TF C	153F-221K-5-MMN	ECQ-B50V-221K	
C415	TF C	153F-221K-5-MMN	ECQ-B50V-122J	
C416	TF C	153F-221K-5-MMN	ECQ-B50V-122J	
C417	TF C	153F-272J-K-MMN	ECQ-B50V-272J	
C418	TF C	153F-272J-K-MMN	ECQ-B50V-272J	
C419	ELECT C	157F-226M-5-IUI	CE04W50V22M(SC)	
C420	ELECT C	157F-226M-5-IUI	CE04W50V22M(SC)	
C421	ELECT C	157D-477M-5-OVI	CE04W16V470M(SC)	
C422	ELECT C	157D-477M-5-OVI	CE04W16V470M(SC)	
C423	ELECT C	157F-105M-K-IUI	CE04W50V1.0M(SC)	
C424	C-CERA C	150F-223Z-P-AC	CK725F1H-223Z1	
C425	ELECT C	157B-227M-5-IUI	CE04W6.3V220M(SC)	
C426	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	
C427	C-CERA C	150D-104K-P-AC	CK725B1C-104K1	

C428	C-CERA C		15CH-020C-P-AC	CC725CH1H-020C1	
C429	C-CERA C		15CH-020C-P-AC	CC725CH1H-020C1	
C430	C-CERA C		150D-104K-P-AC	CK725B1C-104K1	
C431	C-CERA C		15CH-220J-P-AC	CC725CH1H-220J1	
C432	ELECT C		157B-107M-K-IUI	CE04W6.3V100M(SC)	
C433	C-CERA C		150D-104K-P-AC	CK725B1C-104K1	
C434	ELECT C		157D-106M-K-IUI	CE04W16V10M(SC)	
C435	ELECT C		157D-106M-K-IUI	CE04W16V10M(SC)	
C436	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C437	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	
C438	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	
C439	TF C		153F-102J-K-MMN	ECQ-B50V-102J	
C440	TF C		153F-102J-K-MMN	ECQ-B50V-102J	
C441	ELECT C		157D-476M-K-IUI	CE04W16V47M(SC)	
C442	ELECT C		157F-105M-K-IUI	CE04W50V1.0M(SC)	
C603	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C604	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C703	ELECT C		157D-107M-K-LII	CE04W16V100M(SSK)	
C704	ELECT C		157D-107M-K-LII	CE04W16V100M(SSK)	
C705	C-CERA C		150F-223Z-P-AC	CK725F1H-223Z1	
C706	C-CERA C		150F-223Z-P-AC	CK725F1H-223Z1	
C707	C-CERA C		150F-223Z-P-AC	CK725F1H-223Z1	
C711	ELECT C		157D-106M-K-GII	CE04W16V10M(SSK)	
C712	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C713	ELECT C		157D-106M-K-GII	CE04W16V10M(SSK)	
C714	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C715	ELECT C		157D-106M-K-GII	CE04W16V10M(SSK)	
C716	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C717	ELECT C		157D-106M-K-GII	CE04W16V10M(SSK)	
C718	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C719	ELECT C		157D-106M-K-GII	CE04W16V10M(SSK)	
C720	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C721	ELECT C		157D-106M-K-GII	CE04W16V10M(SSK)	
C722	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C728	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C729	ELECT C		157B-107M-K-LII	CE04W6.3V100M(SSK)	
C731	ELECT C		157F-105M-5-GII	CE04W50V1M(SSK)	
C732	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C733	C-CERA C		15CH-102J-P-AC	CC725CH1H-102J1	
C761	C-CERA C		150F-223Z-P-AC	CK725F1H-223Z1	
C762	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C764	C-CERA C		150F-223Z-P-AC	CK725F1H-223Z1	
C765	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C766	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C767	ELECT C		157D-107M-K-LII	CE04W16V100M(SSK)	
C768	ELECT C		157B-107M-K-LII	CE04W6.3V100M(SSK)	
C801	ELECT C		157D-106M-K-IUI	CE04W16V10M(SC)	
C802	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C803	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C804	ELECT C		157B-107M-K-IUI	CE04W6.3V100M(SC)	
C808	C-CERA C		150F-104K-P-AC	CK725F1E-104Z1	
C813	C-CERA C		150F-223Z-P-AC	CK725F1H-223Z1	
C815	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	
C816	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	
C817	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	
C818	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	
C819	C-CERA C		15CH-330J-P-AC	CC725CH1H-330J1	

C820	ELECT C	157F-225M-5-IUI	CE04W50V2.2M(SC)	
C827	CERA C	150F-223Z-5-RE	CK45F50V-223Z	
C828	CERA C	150F-223Z-5-RE	CK45F50V-223Z	
C829	CERA C	150F-223Z-5-RE	CK45F50V-223Z	
R129	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R2001	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2002	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2003	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2004	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2005	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2006	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2007	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2008	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R2009	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R205	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R206	C-CARBON R	4723-472J-P-R	RN72K1J-472JE	
R207	C-CARBON R	4723-472J-P-R	RN72K1J-472JE	
R208	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R211	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R212	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R214	C-CARBON R	4723-102J-P-R	RN72K1J-102JE	
R215	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R216	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R217	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R218	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R219	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R220	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R221	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R222	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R223	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R224	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R225	C-CARBON R	4723F-000J-P-R	RN72K1J-000JE	
R226	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R229	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R230	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R231	C-CARBON R	4723-750J-P-R	RN72K1J-750JE	
R234	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R235	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R236	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R237	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R238	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R275	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R281	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R282	C-CARBON R	4723-2R2J-P-R	RN72K1J-022JE	
R4001	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R4003	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R401	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R402	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R403	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R404	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R405	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R406	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R407	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R408	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R409	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R411	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R412	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	

R413	C-CARBON R	4723-153J-P-R	RN72K1J-153JE	
R414	C-CARBON R	4723-153J-P-R	RN72K1J-153JE	
R415	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
R416	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
R417	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R418	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R419	C-CARBON R	4723-333J-P-R	RN72K1J-333JE	
R420	C-CARBON R	4723-333J-P-R	RN72K1J-333JE	
R421	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R422	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R423	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R424	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R425	C-CARBON R	4723-152J-P-R	RN72K1J-152JE	
R426	C-CARBON R	4723-152J-P-R	RN72K1J-152JE	
R427	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R428	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R430	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R431	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R432	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R433	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R434	C-CARBON R	4723-223J-P-R	RN72K1J-223JE	
R435	C-CARBON R	4723-152J-P-R	RN72K1J-152JE	
R436	C-CARBON R	4723-152J-P-R	RN72K1J-152JE	
R437	C-CARBON R	4723-152J-P-R	RN72K1J-152JE	
R438	C-CARBON R	4723-152J-P-R	RN72K1J-152JE	
R439	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R440	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R441	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R442	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	
R443	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R444	C-CARBON R	4723-000J-P-R	RN72K1J-000JE	
R445	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
R446	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
R447	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R448	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R449	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R450	C-CARBON R	4723-221J-P-R	RN72K1J-221JE	
R451	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R452	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R453	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R454	C-CARBON R	4723-222J-P-R	RN72K1J-222JE	
R455	METAL O R	4717-151J-5-X	RS1/2WBJ-150	
R456	METAL O R	4717-151J-5-X	RS1/2WBJ-150	
R457	C-CARBON R	4723-472J-P-R	RN72K1J-472JE	
R458	C-CARBON R	4723-332J-P-R	RN72K1J-332JE	
R459	C-CARBON R	4723-105J-P-R	RN72K1J-105JE	
R460	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R461	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R462	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
R463	C-CARBON R	4723-474J-P-R	RN72K1J-474JE	
R464	C-CARBON R	4723-104J-P-R	RN72K1J-104JE	
R465	C-CARBON R	4723-101J-P-R	RN72K1J-101JE	
R466	C-CARBON R	4723-331J-P-R	RN72K1J-331JE	
R467	C-CARBON R	4723-181J-P-R	RN72K1J-181JE	
R468	C-CARBON R	4723-181J-P-R	RN72K1J-181JE	
R471	METAL O R	4717-101J-5-X	RS1/2WBJ-100	
R474	C-CARBON R	4723-103J-P-R	RN72K1J-103JE	

R476	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R477	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R480	C-CARBON R		4723-392J-P-R	RN72K1J-392JE	
R481	C-CARBON R		4723-123J-P-R	RN72K1J-123JE	
R482	C-CARBON R		4723-273J-P-R	RN72K1J-273JE	
R7001	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R701	C-CARBON R		4723-822J-P-R	RN72K1J-822JE	
R702	C-CARBON R		4723-332J-P-R	RN72K1J-332JE	
R703	C-CARBON R		4723-105J-P-R	RN72K1J-105JE	
R704	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R705	C-CARBON R		4723-822J-P-R	RN72K1J-822JE	
R706	C-CARBON R		4723-562J-P-R	RN72K1J-562JE	
R707	C-CARBON R		4723-105J-P-R	RN72K1J-105JE	
R708	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R709	NF CARBON R		4705-4R7J-K-P	R25J-4.7	
R710	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R711	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R712	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R713	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R714	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R715	NF CARBON R		4705-4R7J-K-P	R25J-4.7	
R716	C-CARBON R		4723-682J-P-R	RN72K1J-682JE	
R717	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R718	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R719	C-CARBON R		4723-562J-P-R	RN72K1J-562JE	
R720	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R721	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R722	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R723	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R724	C-CARBON R		4723-224J-P-R	RN72K1J-224JE	
R725	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R726	C-CARBON R		4723-223J-P-R	RN72K1J-223JE	
R731	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R732	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R733	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R734	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R735	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R736	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R737	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R738	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R739	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R740	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R741	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R742	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R743	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R744	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R745	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R746	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R747	C-CARBON R		4723-100J-P-R	RN72K1J-100JE	
R748	C-CARBON R		4723-473J-P-R	RN72K1J-473JE	
R749	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R750	C-CARBON R		4723-224J-P-R	RN72K1J-224JE	
R751	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R752	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R754	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R756	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R757	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	**<CPA4P>**

R758	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	<CDD1N>
R761	C-CARBON R		4723-181J-P-R	RN72K1J-181JE	
R762	C-CARBON R		4723-154J-P-R	RN72K1J-154JE	
R763	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R764	C-CARBON R		4723-474J-P-R	RN72K1J-474JE	
R765	C-CARBON R		4723-274J-P-R	RN72K1J-274JE	
R766	C-CARBON R		4723-472J-P-R	RN72K1J-472JE	
R767	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R768	C-CARBON R		4723-222J-P-R	RN72K1J-222JE	
R771	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R781	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R782	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R783	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R784	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R786	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R791	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R792	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R801	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R802	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R803	C-CARBON R		4723-821J-P-R	RN72K1J-821JE	
R804	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R805	C-CARBON R		4723-182J-P-R	RN72K1J-182JE	
R806	C-CARBON R		4723-392J-P-R	RN72K1J-392JE	
R807	C-CARBON R		4723-103J-P-R	RN72K1J-103JE	
R808	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R809	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R810	C-CARBON R		4723-821J-P-R	RN72K1J-821JE	
R811	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R812	C-CARBON R		4723-182J-P-R	RN72K1J-182JE	
R813	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R814	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R815	C-CARBON R		4723-821J-P-R	RN72K1J-821JE	
R816	C-CARBON R		4723-102J-P-R	RN72K1J-102JE	
R821	C-CARBON R		4723-000J-P-R	RN72K1J-000JE	
R822	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R823	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R824	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R825	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R826	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R827	C-CARBON R		4723-101J-P-R	RN72K1J-101JE	
R828	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R831	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R832	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R833	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R834	C-CARBON R		4723-272J-P-R	RN72K1J-272JE	
R835	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R836	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R837	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R838	C-CARBON R		4723-104J-P-R	RN72K1J-104JE	
R841	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R842	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R843	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R844	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R845	C-CARBON R		4723-471J-P-R	RN72K1J-471JE	
R846	METAL O R		4717-4R7J-1	RS1/2WBJ-4.7	
R847	C-CARBON R		4723-391J-P-R	RN72K1J-391JE	
R848	C-CARBON R		4723-151J-P-R	RN72K1J-151JE	

R849	C-CARBON R	4723-391J-P-R	RN72K1J-391JE	
R850	C-CARBON R	4723-151J-P-R	RN72K1J-151JE	
R856	C-CARBON R	4723-273J-P-R	RN72K1J-273JE	
E201	WS CLAMP	6360-9650-0	CP-1S	
P2001A	SOCKET	2101-1440-0	NSCT-14P2405	
P2001A or	SOCKET	2101-1542-0	NSCT-14P2211	
P201	PIN JACK	2113-2017-0	NPJ-3PDGLR511	
P202A	PIN JACK	2113-2018-0	NPJ-5PDBY456	
P2401A	SOCKET	2101-1441-0	NSCT-15P2433	
P2401A or	SOCKET	2101-1543-0	NSCT-15P2249	
P2501B	PLUG	2101-3005-0	2003P0700T	PH SIDE
P2901B	PLUG	2101-3006-0	2003P0600T	PH SIDE
P401	PIN JACK	2113-2020-0	NPJ-2PDRW435	
P402	PIN JACK	2113-2021-0	NPJ-1PDOR369	
P403	PLUG	2101-1416-0	NPLG-2P116	
P403A	SOCKET AS	7012-6551-0	NSAS-4P1100	
P602	PIN JACK	2113-2022-0	NPJ-2PDB400	
P701A	SOCKET AS	7012-6540-0	NSAS-6P1140	
P701B	PLUG	2101-1415-0	NPLG-3P941	AMP SIDE
P702A	PLUG	2101-1418-0	NPLG-11P431	
P702B	PLUG	2101-1418-0	NPLG-11P431	
P704	PLUG	2101-1417-0	NPLG-11P949	
P704A	SOCKET AS	7012-6542-0	NSAS-22P1126	
P707A	SOCKET	2101-1421-0	NSCT-6P2099	
P707Aor	SOCKET	2101-1538-0	NSCT-6P1600	
P707Aor	SOCKET	2101-1540-0	NSCT-6P1802	
P707B	SOCKET	2101-1422-0	NSCT-6P2136	
P707Bor	SOCKET	2101-1541-0	NSCT-6P1839	
P707Bor	SOCKET	2101-1539-0	NSCT-6P1637	
P708A	PLUG	2101-1451-0	NPLG-2P940	
P708B	SOCKET AS	7012-6554-0	NSAS-4P1138	
P709A	PLUG	2101-1424-0	NPLG-2P422	
P709B	SOCKET AS	7012-6545-0	NSAS-4P1127	
P802A	SOCKET AS	7012-6546-0	NSAS-8P1118	
P804A	PLUG	2101-1425-0	NPLG-5P425	AMP TOP
P804B	SOCKET AS	7012-6547-0	NSAS-10P1119	
P805A	PLUG	2101-1426-0	NPLG-4P424	AMP TOP
P805B	SOCKET AS	7012-6548-0	NSAS-8P1120	
P806A	SOCKET AS	7012-6552-0	NSAS-6P1137	
S701	PUSH SW	5200-4862-0-01	NPS-111-S679	
S702	PUSH SW	5200-4862-0-01	NPS-111-S679	
S703	PUSH SW	5200-4862-0-01	NPS-111-S679	
S801	PUSH SW	5200-4861-0-01	NPS-111-S681	
S802	PUSH SW	5200-4861-0-01	NPS-111-S681	
S803	PUSH SW	5200-4861-0-01	NPS-111-S681	
S804	PUSH SW	5200-4861-0-01	NPS-111-S681	
S805	PUSH SW	5200-4861-0-01	NPS-111-S681	
S806	PUSH SW	5200-4861-0-01	NPS-111-S681	
S807	PUSH SW	5200-4861-0-01	NPS-111-S681	
S808	PUSH SW	5200-4861-0-01	NPS-111-S681	
S809	PUSH SW	5200-4861-0-01	NPS-111-S681	
S810	PUSH SW	5200-4861-0-01	NPS-111-S681	
S811	PUSH SW	5200-4861-0-01	NPS-111-S681	
S812	PUSH SW	5200-4861-0-01	NPS-111-S681	
S813	PUSH SW	5200-4861-0-01	NPS-111-S681	
S814	PUSH SW	5200-4861-0-01	NPS-111-S681	
S815	PUSH SW	5200-4861-0-01	NPS-111-S681	

S816	PUSH SW	5200-4861-0-01	NPS-111-S681	
S817	PUSH SW	5200-4861-0-01	NPS-111-S681	
S818	PUSH SW	5200-4861-0-01	NPS-111-S681	
S819	PUSH SW	5200-4861-0-01	NPS-111-S681	

DVD MECHANISM SECTION PARTS LIST

DV-CP702

NO.	PART NAME	PART NO.	DESCRIPTION	REMARK	N	Q'TY
M1	RAIL	4154-6031-2				1
M2	Loading motor assy	Q0090C-MOTCC		(M2)+(M3)		1
(M2)	MOTOR	8913-6002-1	CCM07B-045R1-1A	**NSP**		1
(M3)	PULLEY	4154-6001-0		M2*1 **NSP**		1
M4	SCREW	2900-2604-0000	2.6TTP+4S	M1*2		2
M5	TAPE	9500-9006-0	CLOTH-8U	0.03MT		1
M6	RBR BELT	4157-0281-0	DVCP701			1
M7	GEAR	4154-6061-0	(PULLEY)			1
M8	GEAR	4154-6091-0	(A)			1
M9	GEAR	4154-6071-0	(MAIN)			1
M10	GEAR	4154-6101-0	(CAM)			1
M11	SCREW	4135-3301-0	SCREW	M7*1,M9*1,M10*1		3
M12	DVD M	24801016	KHM-280AAA			1
M13	CHASSIS	4154-6041-1	(SUB)			1
M14	INSULATOR	4154-6141-0	(A)			2
M15	INSULATOR	4157-0261-0	(B)			2
M16	SCREW	4135-3301-0	SCREW	M14*2,M15*2		4
M17	CAP	4154-6161-0	(CHC)			1
M18	YOKE	4135-3201-1	(CHB)			1
M19	MAGNET	4135-3211-0	(CHB)			1
M20	SCREW	2854-3008-0000	3TTB+8B	PCB*6		6
M22	TAPE	9500-9007-0	TAPE(CLOTH-16U)	M1:0.07:MT		1
M23	SPRING	2510-3591-0	(DV-CP701)			1
M30	TRAY	4154-6011-5				1
M31	BRACKET AS	8901-4650-1	(M)			1
M32	Roulette motor assy	Q0090C-MOTPW		(M32)+(M33)+(M42)		1
(M32)	MOTOR	8913-6003-0	PWN10EA02D	**NSP**		1
(M33)	GEAR	4154-6081-0	(WORM)	M32*1 **NSP**		1
(M42)	WASHER	4155-0171-0	0.5t*2.1*6	M32*2 **NSP**		2
M34	SCREW	2900-2003-0000	2P+3F(BC)	M31*2		2
M35	GEAR	4154-5991-0	(WHEEL)			1
M36	WASHER	4154-4491-0	(B)	M35*1		1
M37	SCREW	2854-3008-0000	3TTB+8B	M31*2,PCB*1		3
M38	ROLLER	4154-6131-0	DVCP701	M30*4		4
M39	ROULETTE	4154-6021-1				1
M40	SCREW	4135-3301-0	SCREW	M30*1		1
M41	TAPE	9500-9006-0	CLOTH-8U	M30:0.03:MT		1
M50	ARM	4154-6051-0				1
M51	CUSHION	4157-0532-0		M50*1,M52*1		2
M52	RETAINER	4135-3881-0				1
M53	SCREW	2854-3008-0000	3TTB+8B	M52*1		1
M54	CUSHION	4157-0591-0		M1*2		2

! : Safety part

\<B\> : Black color model

\<S\> : Silver color model

\<CDD1N\> : North American area

\<CPA4P\> : Australian area

Parts marked by "**NSP**" are genrally unavailable because
 they are not in our Master Spare Parts List.

EXPLODED VIEW PARTS LIST

NO.	PART NAME		PART NO.	DESCRIPTION	REMARK	N
A1	F PANEL		1466-1803-0	**\<B\>**		N
A1	F PANEL		1466-1804-0	**\<S\>**		
A2	KNOB		2446-3901-0	(STBY) **\<B\>**		
A2	KNOB		2446-3701-0	(STBY) **\<S\>**		
A3	KNOB		2446-4101-0	(SEL) **\<B\>**		
A3	KNOB		2446-3801-0	(SEL) **\<S\>**		
A4	KNOB		2446-4601-0	(EJ) **\<B\>**		
A4	KNOB		2446-4401-0	(EJ) **\<S\>**		
A5	KNOB		2446-4301-0	(PLAY) **\<B\>**		
A5	KNOB		2446-4001-0	(PLAY) **\<S\>**		
A6	KNOB		2446-4501-0	(DIS) **\<B\>**		
A6	KNOB		2446-4201-0	(DIS) **\<S\>**		
A7	RETAINER		4135-3701-0	(BDG) **\<S\>**		
A8	BADGE		4154-6151-0	BADGE **\<B\>**		
A8	BADGE		4154-6211-0	BADGE **\<S\>**		
A12	CLEAR PLT		3717-1011-0	**\<B\>**		N
A12	CLEAR PLT		3717-1110-0	**\<S\>**		
A13	FACET		3716-8306-0	(LIGHT)		
A14	FACET		3716-8511-0	(S)		
A15	DF TAPE		9500-0400-0	W2	0.008MT	
A16	TAPE		9500-9006-0	CLOTH-8U	0.05MT	
A18	BRACKET		4135-3181-1	(F)		
A19	SCREW		2954-2608-3000	2.6TTB+8B(BC)		
A21	ISO PLT		4154-6191-0			
A22	P RIVET		4154-5341-0-V	P-3055B-8L		
A25	SCREW		2854-3008-0000	3TTB+8B		
A26	SCREW		2950-3008-3010	3TTW+8B(BC)	A001x1	
A30	CHASSIS		1404-7621-2			
A31	HOLDER		4154-5291-0	KGLS-10RT		
A32	WS CLAMP		6360-9640-0	CLAMP WS-2W		
A33	RETAINER		4135-3191-0	(R)		
A41	LEG		4154-6171-0	LEG		
A42	CUSHION		4157-0311-0			
A46	CUSHION		4149-0401-0			
A48	BUSHING	!	4152-3851-0	S-RELIEF #2271		
A50	DOOR		4154-6121-2	(TRAY) **\<B\>**		
A50	DOOR		4154-6122-2	(TRAY) **\<S\>**		
A53	REAR PANEL		1404-7501-0	**\<CDD1N\>**		N
A53	REAR PANEL		1404-7503-0	**\<CPA4P\>**		N
A54	SCREW		2954-3008-3000	3TTB+8B(BC)	A053x11	
A56	LABEL(DVD2)		3000-9443-0			
A214	COVER		1404-7401-0	**\<B\>**		
A214	COVER		1404-7402-0	**\<S\>**		
A215	SCREW		2954-3008-3000	3TTB+8B(BC) **\<B\>**	A214(6)	
A215	SCREW		4135-3311-0	3TTB+8B(UN) **\<S\>**	A214(6)	
A216	SHEET		3000-9632-0	(S)		
A217	TAPE		9500-9006-0	CLOTH-8U	0.42MT	
E102	WIRE TIE		6360-1371-0			
E821	CORE		1808-0740-0	GM8T25*15*10		
F1	FUSE	!	5120-0130-0	1.6A-UL/T-237 **\<CDD1N\>**		
F1 or	FUSE	!	5120-1000-0	1.6A-T/UL-ST2 **\<CDD1N\>**		
F1	FUSE	!	5120-0094-0	2.5A-SE-EAK FUSE **\<CPA4P\>**		
F1 or	FUSE	!	5120-1010-0	2.5A-SE-TL250V **\<CPA4P\>**		
P1001	FFC		7012-6553-0	NCFCD-26003		
P1101	SOCKET AS		7012-6524-0	NSAS-12P0960		
P2001	FFC		7012-6525-0	NCFC5-141522		
P2401	FFC		7012-6526-0	NCFC5-152022		
P2501	SOCKET AS		7012-6795-0	001-0206-H	KR-KR	
P2901	SOCKET AS		7012-6528-0	001-0486-H	PH-PH	
P702	SOCKET AS		7012-6521-0	NSAS-22P1141		
P707	FFC		7012-6522-0	NCFC6-063012		
P901	AC CORD	!	7012-6533-1	AS-UC-2 **\<CDD1N\>**		
P901 or	AC CORD	!	7012-6781-0	AS-UC-2 **\<CDD1N\>**		
P901 or	AC CORD	!	7012-6774-0	AS-UC-2 **\<CDD1N\>**		
P901	AC CORD	!	7012-6564-0	AS-SAA **\<CPA4P\>**		
P901 or	AC CORD	!	7012-6773-0	AS-SAA **\<CPA4P\>**		
P901 or	AC CORD	!	7012-6564-0	AS-SAA **\<CPA4P\>**		

U1	DVD Main circuit PC board assy	PCB-Q0090C-MPEGA	NADG-7807-1A **<CDD1N>**	
U1	DVD Main circuit PC board assy	PCB-Q0090C-MPEGB	NADG-7807-1A **<CPA4P>**	
U2	Display circuit PC board assy	PCB-Q0150C-MAINA	NADIS-7808-1A **<CDD1N>**	**NSP**
U2	Display circuit PC board assy	PCB-Q0150C-MAINB	NADIS-7808-1B **<CPA4P>**	**NSP**
(U3)	Front disp. PC board assy	1H498508-1A	NADIS-7808-1A **<CDD1N>**	
(U3)	Front disp. PC board assy	1H498508-1B	NADIS-7808-1B **<CPA4P>**	
(U4)	Mecha. Control PC board assy	1H498509-1A	NADG-7809-1A **<CDD1N>**	
(U4)	Mecha. Control PC board assy	1H498509-1B	NADG-7809-1B **<CPA4P>**	
(U5)	Video output terminal PC board assy	1H498510-1A	NAVD-7810-1A **<CDD1N>**	
(U5)	Video output terminal PC board assy	1H498510-1B	NAVD-7810-1B **<CPA4P>**	
(U6)	Audio output terminal PC board assy	1H498511-1A	NAAF-7811-1A **<CDD1N>**	
(U6)	Audio output terminal PC board assy	1H498511-1B	NAAF-7811-1B **<CPA4P>**	
(U7)	Disc select switch PC board assy	1H498512-1A	NASW-7812-1A **<CDD1N>**	
(U7)	Disc select switch PC board assy	1H498512-1B	NASW-7812-1B **<CPA4P>**	
(U8)	Key operation PC board assy	1H498513-1A	NASW-7813-1A **<CDD1N>**	
(U8)	Key operation PC board assy	1H498513-1B	NASW-7813-1B **<CPA4P>**	
(U9)	Standby switch PC board assy	1H498514-1A	NASW-7814-1A **<CDD1N>**	
(U9)	Standby switch PC board assy	1H498514-1B	NASW-7814-1B **<CPA4P>**	
(U10)	LED display PC board assy	1H498515-1A	NADIS-7815-1A **<CDD1N>**	
(U10)	LED display PC board assy	1H498515-1B	NADIS-7815-1B **<CPA4P>**	
(U11)	Roulette motor PC board assy	1H498516-1A	NAETC-7816-1A **<CDD1N>**	
(U11)	Roulette motor PC board assy	1H498516-1B	NAETC-7816-1B **<CPA4P>**	
(U12)	Loading motor PC board assy	1H498517-1A	NAETC-7817-1A **<CDD1N>**	
(U12)	Loading motor PC board assy	1H498517-1B	NAETC-7817-1B **<CPA4P>**	
(U13)	Disc sensor PC board assy	1H498518-1A	NAETC-7818-1A **<CDD1N>**	
(U13)	Disc sensor PC board assy	1H498518-1B	NAETC-7818-1B **<CPA4P>**	
U30	Power supply unit	! 8910-0740-0	NGPS-0036-100-120V **<CDD1N>**	
U30	Power supply unit	! 8910-0750-0	NGPS-0037-100-240V **<CPA4P>**	

PACKING PARTS LIST

DV-CP702

NO.	PART NAME	PART NO. (GPE)	DESCRIPTION	REMARK	N
A603a	PAD	1490-4401-0	(L)		N
A603b	PAD	1490-4411-0	(R)		N
A604	SHEET	4154-6221-0	(DR)		
A606	BAG	1497-7542-0			
A608	TAPE	9500-9012-0	(SEROHAN)NITTO NO.29	00.3MT	
A610	PP TAPE	9500-0070-0	W48 OPP TAPE	1.5MT	
A651	UPC LABEL	3001-0077-0	**<B CDD1N>**		N
A651	EAN LABEL	3001-0078-0	**<B CPA4P>**		N
A651	UPC LABEL	3001-0079-0	**<S CDD1N>**		N
A651	EAN LABEL	3001-0110-0	**<S CPA4P>**		N
A652	WRNTY CARD	3050-2491-1	**<CDD1N>**		
A653	INST SHEET	3050-2521-0	**<CDD1N>**		
A655	CARTON	1436-2906-0-1	**<B CDD1N>**		N
A655	CARTON	1436-2908-0-1	**<B CPA4P>**		N
A655	CARTON	1436-2907-0-1	**<S CDD1N>**		N
A655	CARTON	1436-2907-0-1	**<S CPA4P>**		N
A656	LABEL	3001-0102-0	(RE) **<S CPA4P>**		N
A660	POLY BAG	1497-7382-0	350*250	AC CORD	
A701	POLY BAG	1497-7382-0	350*250		
E801	PIN CORD AS	7012-6531-0	RCA3P(YWR)		
E801 or	PIN CORD AS	7012-6531-0	RCA-3P(YWR)		
E802	BATTERY	4060-0930-0	R6/AA(UM-3)		
E802 or	BATTERY	4060-0930-0	R6/AA(UM-3)		
E803	PLUG CORD	7012-6539-0	3.5-MINI PLUG (RI)		
E804	CORD AS	7012-6532-0	(S CORD)		
E805	REMO CON	8912-0036-0	RC-542DV		
E810	INS MANUAL	4301-7123-0	En(DVCP702)		
E811	CORD AS	7012-6694-0	RCA-1P(O)		

! : Safety part
<B> : Black color model
<S> : Silver color model
<CDD1N> : North American area
<CPA4P> : Australian area
Parts marked by "**NSP**" are genrally unavailable because
they are not in our Master Spare Parts List.

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